



CP-Polymer-Technik GmbH & Co.KG  
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# WELLAMID

## Mechanische Eigenschaften

### Mechanical Properties

|                                                                                                                                                                      |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----|--------------------|----|--------------------|-----|--------------------|-----|---------------------|-----|--------------------|-------|
| <br>CP-Polymer-Technik GmbH & Co.KG<br>Tel: 0049-4292 8167-0 Fax: 0049-4292 8167-49 | Streck-<br>spannung |    | Streck-<br>dehnung |    | Reiß-<br>dehnung   |     | Reiß-<br>dehnung   |     | Zug-<br>festigkeit  |     | Zug E-Modul        |       |
| WELLAMID                                                                                                                                                             | yield stress        |    | yield strain       |    | strain at<br>break |     | strain at<br>break |     | tensile<br>strength |     | tensile<br>modulus |       |
| Bem.                                                                                                                                                                 | 50 mm/min           |    |                    |    |                    |     | 5 mm/min           |     |                     |     |                    |       |
| Maßeinheit / Unit                                                                                                                                                    | MPa                 |    | %                  |    | %                  |     | %                  |     | MPa                 |     | MPa                |       |
| Prüfvorschrift / Test method                                                                                                                                         | ISO 527             |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| spritztrocken / dry(freshly moulded)                                                                                                                                 | X                   |    | X                  |    | X                  |     | X                  |     | X                   |     | X                  |       |
| luftfeucht / moist(after conditioning)                                                                                                                               |                     | X  |                    | X  |                    | X   |                    | X   |                     | X   |                    | X     |
| WELLAMID PA 66 unverstärkt / WELLAMID PA 66 unreinforced                                                                                                             |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| 6600 HW                                                                                                                                                              | 80                  | 55 | 4                  | 15 | 15                 | >50 |                    |     |                     |     | 3000               | 1100  |
| 6600 HWS                                                                                                                                                             | 90                  | 60 | 4                  | 15 | 10                 | >50 |                    |     |                     |     | 3400               | 1300  |
| 6600 HWCP                                                                                                                                                            | 85                  | 60 | 5                  | 20 | 20                 | >50 |                    |     |                     |     | 3200               | 1300  |
| 6600 HWUVCP                                                                                                                                                          | 85                  | 60 | 5                  | 20 | 20                 | >50 |                    |     |                     |     | 3200               | 1300  |
| 6600 TLWCP                                                                                                                                                           | 85                  | 60 | 5                  | 20 | 20                 | >50 |                    |     |                     |     | 3200               | 1300  |
| WELLAMID PA 66 unverstärkt UL-approbiert / WELLAMID PA 66 unreinforced UL-licensed                                                                                   |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| 6600 PA-66-HWL                                                                                                                                                       | 85                  | 60 | 4                  | 20 | 15                 | >50 |                    |     |                     |     | 3200               | 1300  |
| 6600 PA-66-HWV0CP                                                                                                                                                    | 80                  | 45 | 4,5                | 20 | 15                 | 30  |                    |     |                     |     | 3200               | 1200  |
| WELLAMID PA 66 unverstärkt modifiziert / WELLAMID PA 66 unreinforced, impact modified                                                                                |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| 6600/42 HWCP                                                                                                                                                         | 70                  | 45 | 6                  | 25 | 25                 | >50 |                    |     |                     |     | 2500               | 1100  |
| 6600/506 HWCP                                                                                                                                                        | 75                  | 50 | 5                  | 20 | 20                 | >50 |                    |     |                     |     | 2700               | 1200  |
| 6600/508 HWUVCP                                                                                                                                                      | 75                  | 50 | 5                  | 20 | 20                 | >50 |                    |     |                     |     | 2700               | 1200  |
| 6600/58 HWCP                                                                                                                                                         | 55                  | 45 | 5                  | 32 | >50                | >50 |                    |     |                     |     | 2300               | 1000  |
| WELLAMID PA 66 glaskugelgefüllt / WELLAMID PA 66 glass sphere filled *                                                                                               |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| 6600 GS 15 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 6                  | 20  | 75                  | 45  | 3600               | 1700  |
| 6600 GS 20 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 5                  | 18  | 80                  | 50  | 3800               | 1800  |
| 6600 GS 30 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 5                  | 18  | 83                  | 58  | 4600               | 2200  |
| 6600 GS 40 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 5                  | 15  | 85                  | 60  | 5200               | 2600  |
| WELLAMID PA 66 glasfaserverstärkt / WELLAMID PA 66 glass-fibre reinforced *                                                                                          |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| 6600 GV 10 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3                  | 7   | 110                 | 70  | 5100               | 3500  |
| 6600 GV 15 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3                  | 7   | 125                 | 80  | 6100               | 4300  |
| 6600 GV 20 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3                  | 6   | 140                 | 105 | 7200               | 4600  |
| 6600 GV 25 DHCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3,5                | 6   | 160                 | 120 | 8200               | 6300  |
| 6600 GV 25 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3,5                | 6   | 160                 | 120 | 8200               | 6300  |
| 6600 GV 30 HW                                                                                                                                                        |                     |    |                    |    |                    |     | 2,5                | 5   | 170                 | 115 | 8500               | 5500  |
| 6600 GV 30 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3,5                | 6   | 180                 | 125 | 9500               | 7000  |
| 6600 GV 35 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 3                  | 5   | 205                 | 150 | 11000              | 8500  |
| 6600 GV 40 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 2,5                | 4,5 | 210                 | 155 | 12500              | 9500  |
| 6600 GV 45 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 2                  | 3,5 | 215                 | 160 | 14500              | 10500 |
| 6600 GV 50 HWCP                                                                                                                                                      |                     |    |                    |    |                    |     | 2                  | 3,5 | 220                 | 165 | 15200              | 11000 |
| WELLAMID PA 66 glasfaserverstärkt modifiziert / WELLAMID PA 66 impact modified glass-fibre reinforced*                                                               |                     |    |                    |    |                    |     |                    |     |                     |     |                    |       |
| 6600/50 GV 15 HWCP                                                                                                                                                   |                     |    |                    |    |                    |     | 3,5                | 8   | 100                 | 70  | 5300               | 3500  |
| 6600/50 GV 30 HWCP                                                                                                                                                   |                     |    |                    |    |                    |     | 3,5                | 8   | 130                 | 90  | 8000               | 6000  |
| 6600/58 GV 30 HWCP                                                                                                                                                   |                     |    |                    |    |                    |     | 3,5                | 6   | 135                 | 90  | 7500               | 5000  |

\*Füll- und Verstärkungstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

Obige Werte sind unverbindliche Richtwerte! / The figures should be regarded as guide values only !



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| <div></div> <div>CP-Polymer-Technik GmbH &amp; Co.KG<br/>Tel: 0049-4292 8167-0 Fax: 0049-4292 8167-49</div> <div>WELLAMID</div> | Mechanische Eigenschaften<br>Mechanical Properties |                                                          |         |                                                                        |   |                                         |                                                           |         | Thermische Eigenschaften<br>Thermal Properties |                                                                           |                      |      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|---------|------------------------------------------------------------------------|---|-----------------------------------------|-----------------------------------------------------------|---------|------------------------------------------------|---------------------------------------------------------------------------|----------------------|------|--|
|                                                                                                                                                                                                                  | Biege E-Modul<br><br>flexural modulus              | Schlagzähigkeit [Charpy]<br><br>impact strength (Charpy) |         | Kerb-schlag-zähigkeit [Charpy]<br><br>notched impact strength (Charpy) |   | Schmelzpunkt<br><br>melting temperature | Wärmeformbeständigkeit<br><br>heat deflection temperature |         | Vicat B/50<br><br>Vicat B/50                   | Therm. Längenausdehnung - längs<br><br>coeff. of linear thermal expansion |                      |      |  |
| Bem.                                                                                                                                                                                                             |                                                    | +23°C                                                    | - 40 °C |                                                                        |   | +23°C                                   | Kofler                                                    | HDT A   | HDT B                                          | 50 N                                                                      | 23 -80°C             |      |  |
| Maßeinheit / Unit                                                                                                                                                                                                | MPa                                                | kJ/m²                                                    |         | kJ/m²                                                                  |   | kJ/m²                                   | ° C                                                       | ° C     | ° C                                            | ° C                                                                       | 10 <sup>-4</sup> / K |      |  |
| Prüfvorschrift / Test method                                                                                                                                                                                     | DIN 52457                                          | ISO 179                                                  |         |                                                                        |   |                                         | -                                                         | ISO 179 |                                                | ISO 306                                                                   | DIN 53752            |      |  |
| spritztrocken / dry(freshly moulded)                                                                                                                                                                             | X                                                  | X                                                        | X       | X                                                                      | X | X                                       | X                                                         | X       | X                                              | X                                                                         | X                    |      |  |
| luftfeucht / moist(after conditioning)                                                                                                                                                                           | X                                                  | X                                                        | X       | X                                                                      | X | X                                       | X                                                         | X       | X                                              | X                                                                         | X                    |      |  |
| WELLAMID PA 66 unverstärkt / WELLAMID PA 66 unreinforced                                                                                                                                                         |                                                    |                                                          |         |                                                                        |   |                                         |                                                           |         |                                                |                                                                           |                      |      |  |
| 6600 HW                                                                                                                                                                                                          | 2700                                               | 60                                                       | NB      |                                                                        |   | 6                                       | 15                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| 6600 HWS                                                                                                                                                                                                         | 3200                                               | NB                                                       | NB      |                                                                        |   | 6                                       | 15                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| 6600 HWCP                                                                                                                                                                                                        | 2800                                               | NB                                                       | NB      |                                                                        |   | 6                                       | 17                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| 6600 HWUVCP                                                                                                                                                                                                      | 2800                                               | NB                                                       | NB      |                                                                        |   | 6                                       | 17                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| 6600 TLWCP                                                                                                                                                                                                       | 2800                                               | NB                                                       | NB      |                                                                        |   | 6                                       | 17                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| WELLAMID PA 66 unverstärkt UL-approbiert / WELLAMID PA 66 unreinforced UL-licensed                                                                                                                               |                                                    |                                                          |         |                                                                        |   |                                         |                                                           |         |                                                |                                                                           |                      |      |  |
| 6600 PA-66-HWL                                                                                                                                                                                                   | 2800                                               | NB                                                       | NB      |                                                                        |   | 6                                       | 17                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| 6600 PA-66-HWV0CP                                                                                                                                                                                                | 2800                                               | NB                                                       | NB      |                                                                        |   | 6                                       | 17                                                        | 255     | 75                                             | 200                                                                       | 230                  | 0,85 |  |
| WELLAMID PA 66 unverstärkt modifiziert / WELLAMID PA 66 unreinforced, impact modified                                                                                                                            |                                                    |                                                          |         |                                                                        |   |                                         |                                                           |         |                                                |                                                                           |                      |      |  |
| 6600/42 HWCP                                                                                                                                                                                                     | 2100                                               | NB                                                       | NB      |                                                                        |   | 10                                      | 25                                                        | 255     | 65                                             | 150                                                                       | 200                  | 0,9  |  |
| 6600/506 HWCP                                                                                                                                                                                                    | 2200                                               | NB                                                       | NB      |                                                                        |   | 11                                      | 28                                                        | 255     | 65                                             | 150                                                                       | 200                  | 0,9  |  |
| 6600/508 HWUVCP                                                                                                                                                                                                  | 2200                                               | NB                                                       | NB      |                                                                        |   | 13                                      | 35                                                        | 255     | 65                                             | 150                                                                       | 200                  | 0,9  |  |
| 6600/58 HWCP                                                                                                                                                                                                     | 1900                                               | NB                                                       | NB      | NB                                                                     |   | NB                                      | NB                                                        | 255     | 65                                             | 150                                                                       | 200                  | 0,9  |  |
| WELLAMID PA 66 glaskugelgefüllt / WELLAMID PA 66 glass sphere filled *                                                                                                                                           |                                                    |                                                          |         |                                                                        |   |                                         |                                                           |         |                                                |                                                                           |                      |      |  |
| 6600 GS 15 HWCP                                                                                                                                                                                                  | 3000                                               | 20                                                       | 42      |                                                                        |   | 4                                       | 12                                                        | 255     | 100                                            | 200                                                                       | 230                  | 0,7  |  |
| 6600 GS 20 HWCP                                                                                                                                                                                                  | 3200                                               | 20                                                       | 45      |                                                                        |   | 5                                       | 14                                                        | 255     | 110                                            | 200                                                                       | 230                  | 0,65 |  |
| 6600 GS 30 HWCP                                                                                                                                                                                                  | 4000                                               | 25                                                       | 55      |                                                                        |   | 6                                       | 16                                                        | 255     | 120                                            | 205                                                                       | 230                  | 0,5  |  |
| 6600 GS 40 HWCP                                                                                                                                                                                                  | 4600                                               | 30                                                       | 60      |                                                                        |   | 7                                       | 18                                                        | 255     | 130                                            | 205                                                                       | 230                  | 0,4  |  |
| WELLAMID PA 66 glasfaserverstärkt / WELLAMID PA 66 glass-fibre reinforced *                                                                                                                                      |                                                    |                                                          |         |                                                                        |   |                                         |                                                           |         |                                                |                                                                           |                      |      |  |
| 6600 GV 10 HWCP                                                                                                                                                                                                  | 4000                                               | 35                                                       | 60      |                                                                        |   | 5                                       | 10                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,4  |  |
| 6600 GV 15 HWCP                                                                                                                                                                                                  | 5000                                               | 40                                                       | 70      |                                                                        |   | 7                                       | 11                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,35 |  |
| 6600 GV 20 HWCP                                                                                                                                                                                                  | 6100                                               | 55                                                       | 85      |                                                                        |   | 8                                       | 15                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,35 |  |
| 6600 GV 25 DHCP                                                                                                                                                                                                  | 7400                                               | 65                                                       | 90      |                                                                        |   | 10                                      | 18                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,3  |  |
| 6600 GV 25 HWCP                                                                                                                                                                                                  | 7400                                               | 60                                                       | 90      |                                                                        |   | 10                                      | 18                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,3  |  |
| 6600 GV 30 HW                                                                                                                                                                                                    | 7000                                               | 60                                                       | 90      |                                                                        |   | 8                                       | 20                                                        | 255     | 250                                            | 250                                                                       | 220                  | 0,2  |  |
| 6600 GV 30 HWCP                                                                                                                                                                                                  | 8400                                               | 90                                                       | 100     |                                                                        |   | 12                                      | 22                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,2  |  |
| 6600 GV 35 HWCP                                                                                                                                                                                                  | 9500                                               | 95                                                       | 105     |                                                                        |   | 15                                      | 30                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,2  |  |
| 6600 GV 40 HWCP                                                                                                                                                                                                  | 10500                                              | 95                                                       | 105     |                                                                        |   | 17                                      | 35                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,15 |  |
| 6600 GV 45 HWCP                                                                                                                                                                                                  | 12000                                              | 95                                                       | 105     |                                                                        |   | 17                                      | 35                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,15 |  |
| 6600 GV 50 HWCP                                                                                                                                                                                                  | 13500                                              | 95                                                       | 105     |                                                                        |   | 18                                      | 37                                                        | 255     | 250                                            | 250                                                                       | 230                  | 0,15 |  |
| WELLAMID PA 66 glasfaserverstärkt modifiziert / WELLAMID PA 66 impact modified glass-fibre reinforced *                                                                                                          |                                                    |                                                          |         |                                                                        |   |                                         |                                                           |         |                                                |                                                                           |                      |      |  |
| 6600/50 GV 15 HWCP                                                                                                                                                                                               | 5000                                               | 60                                                       | 95      |                                                                        |   | 14                                      | 25                                                        | 255     | 220                                            | 230                                                                       | 230                  | 0,35 |  |
| 6600/50 GV 30 HWCP                                                                                                                                                                                               | 7000                                               | 75                                                       | 100     |                                                                        |   | 20                                      | 32                                                        | 255     | 230                                            | 240                                                                       | 230                  | 0,2  |  |
| 6600/58 GV 30 HWCP                                                                                                                                                                                               | 6500                                               | 85                                                       | 105     | 70                                                                     |   | 28                                      | 36                                                        | 255     | 230                                            | 240                                                                       | 230                  | 0,2  |  |

\*Füll- und Verstärkungsstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

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## Elektrische Eigenschaften

### Electrical Properties

|                                                                                                                | Elektrische Eigenschaften             |   |     |      |                               |    |     |     |                                |                  |                  |                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------|---|-----|------|-------------------------------|----|-----|-----|--------------------------------|------------------|------------------|------------------|
|                                                                                                                | Electrical Properties                 |   |     |      |                               |    |     |     |                                |                  |                  |                  |
|                                                                                                                | Dielektrische Eigenschaften           |   |     |      | Mechanische Eigenschaften     |    |     |     | Elektrische Eigenschaften      |                  |                  |                  |
|                                                                                                                | Dielektr. Verlustfaktor               |   |     |      | Elekt. Durchschlagsfestigkeit |    |     |     | Vergl. Kriechwegbildung        |                  |                  |                  |
|                                                                                                                | Spez. Durchgangswiderstand            |   |     |      | Spez. Oberflächenwiderstand   |    |     |     | Spez. Oberflächeneigenschaften |                  |                  |                  |
|                                                                                                                | relative permittivity                 |   |     |      | loss factor                   |    |     |     | electric strength              |                  |                  |                  |
|                                                                                                                | compe-<br>rative<br>tracking<br>index |   |     |      | volume<br>resistivity         |    |     |     | surface<br>resistivity         |                  |                  |                  |
| Bem.                                                                                                           | 1 MHz                                 |   |     |      | CTI                           |    |     |     |                                |                  |                  |                  |
| Maßeinheit / Unit                                                                                              | 10 <sup>-4</sup>                      |   |     |      | kV/mm                         |    |     |     | Stufe                          |                  |                  |                  |
| Prüfvorschrift / Test method                                                                                   | IEC 250                               |   |     |      | IEC 243-1                     |    |     |     | IEC 112                        |                  |                  |                  |
| spritztrocken / dry(freshly moulded)                                                                           | X                                     |   | X   |      | X                             |    | X   |     | X                              |                  | X                |                  |
| luftfeucht / moist(after conditioning)                                                                         |                                       | X |     | X    |                               | X  |     | X   |                                | X                |                  | X                |
| <b>WELLAMID PA 66 unverstärkt / WELLAMID PA 66 unreinforced</b>                                                |                                       |   |     |      |                               |    |     |     |                                |                  |                  |                  |
| 6600 HW                                                                                                        | 3,4                                   | 5 | 250 | 2000 | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600 HWS                                                                                                       | 3,4                                   | 5 | 250 | 2000 | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600 HWCP                                                                                                      | 3,4                                   | 5 | 250 | 2000 | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600 HWUVC                                                                                                     | 3,4                                   | 5 | 250 | 2000 | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600 TLWCP                                                                                                     | 3,4                                   | 5 | 250 | 2000 | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| <b>WELLAMID PA 66 unverstärkt UL-approbiert / WELLAMID PA 66 unreinforced UL-licensed</b>                      |                                       |   |     |      |                               |    |     |     |                                |                  |                  |                  |
| 6600 PA-66-HWL                                                                                                 | 3,4                                   | 5 | 250 | 2000 | 30                            | 30 | 600 | 600 | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600 PA-66-HWV0CP                                                                                              | 3,4                                   | 5 | 200 | 3000 | 30                            | 30 | 600 | 600 | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| <b>WELLAMID PA 66 unverstärkt modifiziert / WELLAMID PA 66 unreinforced, impact modified</b>                   |                                       |   |     |      |                               |    |     |     |                                |                  |                  |                  |
| 6600/42 HWCP                                                                                                   | 3,4                                   | 5 | 150 | 700  | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600/506 HWCP                                                                                                  | 3,4                                   | 5 | 150 | 700  | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600/508 HWUVC                                                                                                 | 3,4                                   | 5 | 150 | 700  | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| 6600/58 HWCP                                                                                                   | 3,4                                   | 5 | 150 | 700  | 30                            | 30 | 600 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>13</sup> | 10 <sup>10</sup> |
| <b>WELLAMID PA 66 glaskugelgefüllt / WELLAMID PA 66 glass sphere filled *</b>                                  |                                       |   |     |      |                               |    |     |     |                                |                  |                  |                  |
| 6600 GS 15 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 450 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GS 20 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 450 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GS 30 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 450 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GS 40 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 450 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| <b>WELLAMID PA 66 glasfaserverstärkt / WELLAMID PA 66 glass-fibre reinforced *</b>                             |                                       |   |     |      |                               |    |     |     |                                |                  |                  |                  |
| 6600 GV 10 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 15 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 20 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 25 DHCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 25 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 30 HW                                                                                                  | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 30 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 35 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 40 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 45 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 GV 50 HWCP                                                                                                | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| <b>WELLAMID PA 66 glasfaserverstärkt modifiziert / WELLAMID PA 66 impact modified glass-fibre reinforced *</b> |                                       |   |     |      |                               |    |     |     |                                |                  |                  |                  |
| 6600/50 GV 15 HWCP                                                                                             | 4                                     | 6 | 150 | 1500 | 35                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600/50 GV 30 HWCP                                                                                             | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600/58 GV 30 HWCP                                                                                             | 4                                     | 6 | 150 | 1500 | 40                            | 35 | 550 |     | 10 <sup>15</sup>               | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |

\*Füll- und Verstärkungstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

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# WELLAMID

## Sonstige Eigenschaften

### Additional Properties

|                                        | Dichte      | Brennbarkeit |        |        |       |                      |   | Feuchte-<br>aufnahme bis<br>Sättigung | Verar-<br>beitungs-<br>schwin-<br>dung<br>längs/quer | Bemerkungen        |
|----------------------------------------|-------------|--------------|--------|--------|-------|----------------------|---|---------------------------------------|------------------------------------------------------|--------------------|
|                                        |             | flammability |        |        |       |                      |   | humidity<br>absorp-<br>tion           | molding<br>shrinkage<br>flow/<br>transverse          | additional remarks |
| Bem.                                   |             | 0,8 mm       | 1,6 mm | 3,2 mm | 23/50 | Dicke/thickn.<br>4mm |   |                                       |                                                      |                    |
| Maßeinheit / Unit                      | g/cm³       | Stufe        | Stufe  | Stufe  | %     | %                    |   |                                       |                                                      |                    |
| Prüfvorschrift / Test method           | ISO<br>1183 | IEC 707      |        |        |       |                      |   | DIN<br>53495                          | -                                                    |                    |
| spritztrocken / dry(freshly moulded)   | X           | X            | X      | X      | X     | X                    | X | X                                     | X                                                    |                    |
| luftfeucht / moist(after conditioning) |             | X            | X      | X      | X     | X                    |   |                                       |                                                      |                    |

#### WELLAMID PA 66 unverstärkt / WELLAMID PA 66 unreinforced

|             |      |  |     |     |       |         |  |
|-------------|------|--|-----|-----|-------|---------|--|
| 6600 HW     | 1,13 |  | V-2 | V-2 | 2,5-3 | 0,8-1,2 |  |
| 6600 HWS    | 1,14 |  | V-2 | V-2 | 2,5-3 | 0,8-1,2 |  |
| 6600 HWCP   | 1,13 |  | V-2 | V-2 | 2,5-3 | 0,8-1,2 |  |
| 6600 HWUVCP | 1,13 |  | V-2 | V-2 | 2,5-3 | 0,8-1,2 |  |
| 6600 TLWCP  | 1,13 |  | V-2 | V-2 | 2,5-3 | 0,8-1,2 |  |

#### WELLAMID PA 66 unverstärkt UL-approbiert / WELLAMID PA 66 unreinforced UL-licensed

|                   |      |     |     |     |       |         |                                       |
|-------------------|------|-----|-----|-----|-------|---------|---------------------------------------|
| 6600 PA-66-HWL    | 1,14 | V-2 | V-2 | V-2 | 2,5-3 | 0,8-1,2 | UL- approbiert/ UL- licensed All.Col. |
| 6600 PA-66-HWV0CP | 1,15 | V-0 | V-0 | V-0 | 2-2,5 | 0,8-1,2 | UL- approbiert/ UL- licensed All.Col. |

#### WELLAMID PA 66 unverstärkt modifiziert / WELLAMID PA 66 unreinforced, impact modified

|                 |      |  |    |    |       |         |  |
|-----------------|------|--|----|----|-------|---------|--|
| 6600/42 HWCP    | 1,11 |  | HB | HB | 2,5-3 | 0,8-1,2 |  |
| 6600/506 HWCP   | 1,13 |  | HB | HB | 2,5-3 | 0,8-1,2 |  |
| 6600/508 HWUVCP | 1,13 |  | HB | HB | 2,5-3 | 0,8-1,2 |  |
| 6600/58 HWCP    | 1,07 |  | HB | HB | 2,5-3 | 0,8-1,2 |  |

#### WELLAMID PA 66 glaskugelgefüllt / WELLAMID PA 66 glass sphere filled \*

|                 |      |  |    |    |         |         |  |
|-----------------|------|--|----|----|---------|---------|--|
| 6600 GS 15 HWCP | 1,23 |  | HB | HB | 2,2-2,7 | 0,9-1,1 |  |
| 6600 GS 20 HWCP | 1,28 |  | HB | HB | 2,2-2,7 | 0,9-1,1 |  |
| 6600 GS 30 HWCP | 1,35 |  | HB | HB | 1,8-2,3 | 0,9-1,1 |  |
| 6600 GS 40 HWCP | 1,46 |  | HB | HB | 1,8-2,3 | 0,9-1,1 |  |

#### WELLAMID PA 66 glasfaserverstärkt / WELLAMID PA 66 glass-fibre reinforced \*

|                 |      |  |    |    |         |          |                                      |
|-----------------|------|--|----|----|---------|----------|--------------------------------------|
| 6600 GV 10 HWCP | 1,2  |  | HB | HB | 2,2-2,7 | 0,4/0,9  | UL- approbiert/ UL- licensed NC,BC   |
| 6600 GV 15 HWCP | 1,23 |  | HB | HB | 2,2-2,7 | 0,3/0,8  | UL- approbiert/ UL- licensed NC,BC . |
| 6600 GV 20 HWCP | 1,27 |  | HB | HB | 2-2,5   | 0,2/0,7  | UL- approbiert/ UL- licensed NC,BC   |
| 6600 GV 25 DHCP | 1,32 |  | HB | HB | 2-2,5   | 0,2/0,7  |                                      |
| 6600 GV 25 HWCP | 1,32 |  | HB | HB | 2-2,5   | 0,2/0,7  | UL- approbiert/ UL- licensed NC,BC   |
| 6600 GV 30 HW   | 1,36 |  | HB | HB | 1,8-2,3 | 0,2/0,7  |                                      |
| 6600 GV 30 HWCP | 1,36 |  | HB | HB | 1,8-2,3 | 0,2/0,7  | UL- approbiert/ UL- licensed NC,BC   |
| 6600 GV 35 HWCP | 1,41 |  | HB | HB | 1,8-2,3 | 0,2/0,7  | UL- approbiert/ UL- licensed NC,BC.  |
| 6600 GV 40 HWCP | 1,48 |  | HB | HB | 1,4-2   | 0,15/0,8 | UL- approbiert/ UL- licensed NC,BC   |
| 6600 GV 45 HWCP | 1,5  |  | HB | HB | 1,4-2   | 0,15/0,8 | UL- approbiert/ UL- licensed NC,BC . |
| 6600 GV 50 HWCP | 1,57 |  | HB | HB | 1,4-2   | 0,15/0,8 | UL- approbiert/ UL- licensed NC,BC   |

#### WELLAMID PA 66 glasfaserverstärkt modifiziert / WELLAMID PA 66 impact modified glass-fibre reinforced \*

|                    |      |  |    |    |         |         |  |
|--------------------|------|--|----|----|---------|---------|--|
| 6600/50 GV 15 HWCP | 1,19 |  | HB | HB | 2,2-2,7 | 0,3/0,8 |  |
| 6600/50 GV 30 HWCP | 1,29 |  | HB | HB | 1,8-2,3 | 0,2/0,7 |  |
| 6600/58 GV 30 HWCP | 1,27 |  | HB | HB | 1,8-2,3 | 0,2/0,7 |  |

\*Füll- und Verstärkungsstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

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# WELLAMID

## Mechanische Eigenschaften

### Mechanical Properties

|                                                                                                                                                                      |                       |   |                    |   |                    |   |                    |     |                     |     |                    |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---|--------------------|---|--------------------|---|--------------------|-----|---------------------|-----|--------------------|-------|
| <br>CP-Polymer-Technik GmbH & Co.KG<br>Tel: 0049-4292 8167-0 Fax: 0049-4292 8167-49 | Mechanical Properties |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| WELLAMID                                                                                                                                                             | Streck-<br>spannung   |   | Streck-<br>dehnung |   | Reiß-<br>dehnung   |   | Reiß-<br>dehnung   |     | Zug-<br>festigkeit  |     | Zug E-Modul        |       |
|                                                                                                                                                                      | yield stress          |   | yield strain       |   | strain at<br>break |   | strain at<br>break |     | tensile<br>strength |     | tensile<br>modulus |       |
| Bem.                                                                                                                                                                 | 50 mm/min             |   |                    |   |                    |   | 5 mm/min           |     |                     |     |                    |       |
| Maßeinheit / Unit                                                                                                                                                    | MPa                   |   | %                  |   | %                  |   | %                  |     | MPa                 |     | MPa                |       |
| Prüfvorschrift / Test method                                                                                                                                         | ISO 527               |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| spritztrocken / dry(freshly moulded)                                                                                                                                 | X                     |   | X                  |   | X                  |   | X                  |     | X                   |     | X                  |       |
| luftfeucht / moist(after conditioning)                                                                                                                               |                       | X |                    | X |                    | X |                    | X   |                     | X   |                    | X     |
| WELLAMID PA 66 gefüllt mit gemahlenen Glasfasern / WELLAMID PA 66 milled glass-fibre reinforced *                                                                    |                       |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| 6600 MF 30 HWCP                                                                                                                                                      |                       |   |                    |   |                    |   | 3                  | 6   | 130                 | 90  | 7500               | 5100  |
| WELLAMID PA 66 carbonfaserverstärkt / WELLAMID PA 66 carbon-fibre reinforced *                                                                                       |                       |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| 6600 CF 10 HWCP                                                                                                                                                      |                       |   |                    |   |                    |   | 2                  | 4,5 | 160                 | 110 | 12500              | 9000  |
| 6600 CF 20 HWCP                                                                                                                                                      |                       |   |                    |   |                    |   | 2                  | 4   | 175                 | 125 | 16000              | 12500 |
| 6600 CF 30 HWCP                                                                                                                                                      |                       |   |                    |   |                    |   | 1,6                | 3,5 | 205                 | 145 | 21000              | 16000 |
| WELLAMID PA 66 mineralgefüllt & mineral-/glasfaserverstärkt / WELLAMID PA 66 mineral reinforced & mineral/ glass-fibre reinforced *                                  |                       |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| 6600 MR 209 HWCP                                                                                                                                                     |                       |   |                    |   |                    |   | 8                  | 18  | 85                  | 55  | 4300               | 1900  |
| 6600 MR 309 HWCP                                                                                                                                                     |                       |   |                    |   |                    |   | 5                  | 15  | 80                  | 55  | 5200               | 2700  |
| 6600 MR 409 HWCP                                                                                                                                                     |                       |   |                    |   |                    |   | 4                  | 15  | 90                  | 60  | 6000               | 3500  |
| 6600 MRGV 20/20 HWCP                                                                                                                                                 |                       |   |                    |   |                    |   | 3                  | 6   | 130                 | 90  | 8500               | 6000  |
| 6600 MRGV 25/15 HWCP                                                                                                                                                 |                       |   |                    |   |                    |   | 3                  | 6   | 125                 | 85  | 8200               | 5500  |
| WELLAMID PA 66 glasfaser-/glaskugelverstärkt / WELLAMID PA 66 glass-fibre/ glass sphere reinforced*                                                                  |                       |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| 6600 GVS 20/10 HWCP                                                                                                                                                  |                       |   |                    |   |                    |   | 3,5                | 8   | 150                 | 95  | 8000               | 5500  |
| WELLAMID PA 66 Spezialprodukte / WELLAMID PA 66 specialties                                                                                                          |                       |   |                    |   |                    |   |                    |     |                     |     |                    |       |
| 6600 MZ 315 CP                                                                                                                                                       |                       |   |                    |   |                    |   | 2                  | 5   | 130                 | 95  | 9500               | 6000  |
| 6600 MZ 401 CP                                                                                                                                                       |                       |   |                    |   |                    |   | 2                  | 5   | 120                 | 85  | 12500              | 9000  |

\*Füll- und Verstärkungsstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

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# WELLAMID

| <div></div> <div>CP-Polymer-Technik GmbH &amp; Co.KG</div> <div>Tel: 0049-4292 8167-0 Fax: 0049-4292 8167-49</div> <div>WELLAMID</div> | Mechanische Eigenschaften<br><i>Mechanical Properties</i> |   |                                 |   |         |   |                                         |   | Thermische Eigenschaften<br><i>Thermal Properties</i> |                                    |       |                   |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---|---------------------------------|---|---------|---|-----------------------------------------|---|-------------------------------------------------------|------------------------------------|-------|-------------------|-------------------------------------------|
|                                                                                                                                                                                                                         | Biege E-Modul                                             |   | Schlagzähigkeit [Charpy]        |   |         |   | Kerb-schlag-zähigkeit [Charpy]          |   | Schmelzpunkt                                          | Wärmeformbeständigkeit             |       | Vicat B/50        | Therm. Längenausdehnung - längs           |
|                                                                                                                                                                                                                         | <i>flexural modulus</i>                                   |   | <i>impact strength (Charpy)</i> |   |         |   | <i>notched impact strength (Charpy)</i> |   | <i>melting temperature</i>                            | <i>heat deflection temperature</i> |       | <i>Vicat B/50</i> | <i>coeff. of linear thermal expansion</i> |
|                                                                                                                                                                                                                         |                                                           |   |                                 |   |         |   |                                         |   |                                                       |                                    |       |                   |                                           |
|                                                                                                                                                                                                                         |                                                           |   |                                 |   |         |   |                                         |   |                                                       |                                    |       |                   |                                           |
| Bem.                                                                                                                                                                                                                    |                                                           |   | +23°C                           |   | - 40 °C |   | +23°C                                   |   | Kofler                                                | HDT A                              | HDT B | 50 N              | 23 -80°C                                  |
| Maßeinheit / Unit                                                                                                                                                                                                       | MPa                                                       |   | kJ/m²                           |   | kJ/m²   |   | kJ/m²                                   |   | ° C                                                   | ° C                                | ° C   | ° C               | 10 <sup>-4</sup> / K                      |
| Prüfvorschrift / Test method                                                                                                                                                                                            | DIN 52457                                                 |   | ISO 179                         |   |         |   |                                         |   | -                                                     | ISO 179                            |       | ISO 306           | DIN 53752                                 |
| spritztrocken / dry(freshly moulded)                                                                                                                                                                                    | X                                                         |   | X                               |   | X       |   | X                                       |   | X                                                     | X                                  | X     | X                 | X                                         |
| luftfeucht / moist(after conditioning)                                                                                                                                                                                  |                                                           | X |                                 | X |         | X |                                         | X |                                                       |                                    |       |                   |                                           |

## WELLAMID PA 66 gefüllt mit gemahlenen Glasfasern / WELLAMID PA 66 milled glass-fibre reinforced \*

|                 |      |    |    |   |    |     |     |     |     |     |
|-----------------|------|----|----|---|----|-----|-----|-----|-----|-----|
| 6600 MF 30 HWCP | 6200 | 35 | 60 | 8 | 15 | 255 | 200 | 250 | 230 | 0,3 |
|-----------------|------|----|----|---|----|-----|-----|-----|-----|-----|

## WELLAMID PA 66 carbonfaserverstärkt / WELLAMID PA 66 carbon-fibre reinforced \*

|                 |       |    |    |   |    |     |     |     |     |      |
|-----------------|-------|----|----|---|----|-----|-----|-----|-----|------|
| 6600 CF 10 HWCP | 10500 | 35 | 65 | 6 | 14 | 255 | 250 | 250 | 230 | 0,4  |
| 6600 CF 20 HWCP | 13500 | 38 | 72 | 6 | 16 | 255 | 250 | 250 | 230 | 0,35 |
| 6600 CF 30 HWCP | 18500 | 42 | 78 | 7 | 18 | 255 | 250 | 250 | 230 | 0,25 |

## WELLAMID PA 66 mineralgefüllt & mineral-/glasfaserverstärkt / WELLAMID PA 66 mineral reinforced & mineral/ glass-fibre reinforced \*

|                      |      |    |    |   |    |     |     |     |     |      |
|----------------------|------|----|----|---|----|-----|-----|-----|-----|------|
| 6600 MR 209 HWCP     | 3700 | 40 | 70 | 7 | 15 | 255 | 120 | 210 | 230 | 0,7  |
| 6600 MR 309 HWCP     | 4500 | 40 | 65 | 5 | 12 | 255 | 120 | 210 | 230 | 0,65 |
| 6600 MR 409 HWCP     | 5000 | 40 | 65 | 4 | 10 | 255 | 120 | 210 | 230 | 0,65 |
| 6600 MRGV 20/20 HWCP | 7700 | 60 | 90 | 5 | 12 | 255 | 250 | 250 | 230 | 0,3  |
| 6600 MRGV 25/15 HWCP | 7300 | 40 | 70 | 5 | 10 | 255 | 230 | 250 | 230 | 0,35 |

## WELLAMID PA 66 glasfaser-/glaskugolverstärkt / WELLAMID PA 66 glass-fibre/ glass sphere reinforced+

|                     |      |    |    |   |    |     |     |     |     |      |
|---------------------|------|----|----|---|----|-----|-----|-----|-----|------|
| 6600 GVS 20/10 HWCP | 7200 | 50 | 80 | 6 | 12 | 255 | 250 | 250 | 230 | 0,25 |
|---------------------|------|----|----|---|----|-----|-----|-----|-----|------|

## WELLAMID PA 66 Spezialprodukte / WELLAMID PA 66 specialties

|                |       |    |    |   |    |     |     |     |     |     |
|----------------|-------|----|----|---|----|-----|-----|-----|-----|-----|
| 6600 MZ 315 CP | 8400  | 48 | 75 | 5 | 10 | 255 | 250 | 250 | 230 | 0,2 |
| 6600 MZ 401 CP | 10800 | 30 | 55 | 3 | 9  | 255 | 220 | 250 | 230 | 0,2 |

\*Füll- und Verstärkungsstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

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# WELLAMID

## Elektrische Eigenschaften

### Electrical Properties

|                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <div></div> <div>CP-Polymer-Technik GmbH &amp; Co.KG</div> <div>Tel: 0049-4292 8167-0 Fax: 0049-4292 8167-49</div> | <div>Dielek-<br/>trizitäts-<br/>zahl</div> <div><i>relative per-<br/>mittivity</i></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <div>Dielekt.<br/>Verlustfaktor</div> <div><i>loss factor</i></div> |  | <div>Elekt. Durch-<br/>schlags-<br/>festigkeit</div> <div><i>electric<br/>strength</i></div> |  | <div>Vergl.<br/>Kriechweg-<br/>bildung</div> <div><i>compe-<br/>rative<br/>tracking<br/>index</i></div> |  | <div>Spez.<br/>Durchgangs-<br/>widerstand</div> <div><i>volume<br/>resistivity</i></div> |  | <div>Spez. Ober-<br/>flächen-<br/>widerstand</div> <div><i>surface<br/>resistivity</i></div> |  |
| <div>Bem.</div> <div>Maßeinheit / Unit</div>                                                                                                                                                        | <div>1 MHZ</div> <div>10<sup>-4</sup></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                     |  | <div></div> <div>kV/mm</div>                                                                 |  | <div>CTI</div> <div>Stufe</div>                                                                         |  | <div></div> <div>Ohm cm</div>                                                            |  | <div></div> <div>Ohm</div>                                                                   |  |
| <div>Prüfvorschrift / Test method</div> <div>spritztrocken / dry(freshly moulded)</div> <div>luftfeucht / moist(after conditioning)</div>                                                           | <div>IEC 250</div> <div>X                      X                      X</div> 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|  |                                                                     |  |                                                                                              |  |                                                                                                         |  |                                                                                          |  |                                                                                              |  |

#### WELLAMID PA 66 gefüllt mit gemahlenen Glasfasern / WELLAMID PA 66 milled glass-fibre reinforced \*

|                 |   |   |     |      |    |    |     |  |                  |                  |                  |                  |
|-----------------|---|---|-----|------|----|----|-----|--|------------------|------------------|------------------|------------------|
| 6600 MF 30 HWCP | 4 | 6 | 150 | 1500 | 35 | 35 | 550 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
|-----------------|---|---|-----|------|----|----|-----|--|------------------|------------------|------------------|------------------|

#### WELLAMID PA 66 carbonfaserverstärkt / WELLAMID PA 66 carbon-fibre reinforced \*

|                 |  |  |  |  |  |  |  |  |        |  |         |  |
|-----------------|--|--|--|--|--|--|--|--|--------|--|---------|--|
| 6600 CF 10 HWCP |  |  |  |  |  |  |  |  | < 50** |  | < 100** |  |
| 6600 CF 20 HWCP |  |  |  |  |  |  |  |  | < 10** |  | < 20**  |  |
| 6600 CF 30 HWCP |  |  |  |  |  |  |  |  | < 5**  |  | < 10**  |  |

#### WELLAMID PA 66 mineralgefüllt & mineral-/glasfaserverstärkt / WELLAMID PA 66 mineral reinforced & mineral/ glass-fibre reinforced \*

|                      |   |   |     |      |    |    |     |  |                  |                  |                  |                  |
|----------------------|---|---|-----|------|----|----|-----|--|------------------|------------------|------------------|------------------|
| 6600 MR 209 HWCP     | 4 | 6 | 150 | 600  | 35 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 MR 309 HWCP     | 4 | 6 | 150 | 600  | 35 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 MR 409 HWCP     | 4 | 6 | 150 | 600  | 35 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 MRGV 20/20 HWCP | 4 | 6 | 150 | 1500 | 40 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 MRGV 25/15 HWCP | 4 | 6 | 150 | 1500 | 40 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |

#### WELLAMID PA 66 glasfaser-/glaskugelverstärkt / WELLAMID PA 66 glass-fibre/ glass sphere reinforced\*

|                     |   |   |     |      |    |    |     |  |                  |                  |                  |                  |
|---------------------|---|---|-----|------|----|----|-----|--|------------------|------------------|------------------|------------------|
| 6600 GVS 20/10 HWCP | 4 | 6 | 150 | 1500 | 35 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
|---------------------|---|---|-----|------|----|----|-----|--|------------------|------------------|------------------|------------------|

#### WELLAMID PA 66 Spezialprodukte / WELLAMID PA 66 specialties

|                |   |   |     |      |    |    |     |  |                  |                  |                  |                  |
|----------------|---|---|-----|------|----|----|-----|--|------------------|------------------|------------------|------------------|
| 6600 MZ 315 CP | 4 | 6 | 150 | 1500 | 35 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |
| 6600 MZ 401 CP | 4 | 6 | 150 | 1000 | 35 | 35 | 450 |  | 10 <sup>15</sup> | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>10</sup> |

Bitte beachten Sie

Diese Information und unsere anwendungstechnische Beratung in Wort, Schrift und Versuche erfolgt nach bestem Wissen, gelten jedoch als unverbindliche Hinweise. Die Beratung befreit Sie nicht von eigenen Prüfungen unserer Produkte im Hinblick auf ihre Eignung für die beabsichtigten Verfahren und Zwecke. Die angegebenen Werte wurden, wenn nicht ausdrücklich anders angegeben, an genormten Prüfkörpern bei Raumtemperatur ermittelt. Die Angaben sind als Richtwerte anzusehen, nicht aber als verbindliche Mittelwerte. Bitte beachten Sie, daß die Eigenschaften u.a. durch die Verarbeitungsbedingungen, die Werkzeuggestaltung und durch die Einfärbung beeinflusst werden können.

Der Verkauf unserer Produkte erfolgt nach Maßgabe unserer Verkaufs- und Lieferbedingungen.

\*Füll- und Verstärkungsstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

Obige Werte sind unverbindliche Richtwerte! / The figures should be regarded as guide values only !

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# WELLAMID

## Sonstige Eigenschaften

### Additional Properties

|                                        | Dichte      | Brennbarkeit |        |        |   |   | Feuchte-<br>aufnah-<br>me bis<br>Sätti-<br>gung | Verar-<br>beitungs-<br>schwin-<br>dung<br>längs/quer | Bemerkungen        |
|----------------------------------------|-------------|--------------|--------|--------|---|---|-------------------------------------------------|------------------------------------------------------|--------------------|
|                                        |             | flammability |        |        |   |   | humidity<br>absorp-<br>tion                     | molding<br>shrinkage<br>flow/<br>transverse          | additional remarks |
| Bem.                                   |             | 0,8 mm       | 1,6 mm | 3,2 mm |   |   | 23/50                                           | Dicke/thickn.<br>4mm                                 |                    |
| Maßeinheit / Unit                      | g/cm³       | Stufe        | Stufe  | Stufe  |   |   | %                                               | %                                                    |                    |
| Prüfvorschrift / Test method           | ISO<br>1183 | IEC 707      |        |        |   |   | DIN<br>53495                                    | -                                                    |                    |
| spritztrocken / dry(freshly moulded)   | X           | X            | X      | X      | X | X | X                                               | X                                                    |                    |
| luftfeucht / moist(after conditioning) |             |              | X      | X      | X | X |                                                 |                                                      |                    |

### WELLAMID PA 66 gefüllt mit gemahlenen Glasfasern / WELLAMID PA 66 milled glass-fibre reinforced \*

|                 |      |  |  |    |  |    |         |         |  |
|-----------------|------|--|--|----|--|----|---------|---------|--|
| 6600 MF 30 HWCP | 1,36 |  |  | HB |  | HB | 1,8-2,3 | 0,5/0,7 |  |
|-----------------|------|--|--|----|--|----|---------|---------|--|

### WELLAMID PA 66 carbonfaserverstärkt / WELLAMID PA 66 carbon-fibre reinforced \*

|                 |      |  |  |    |  |    |         |         |                                            |
|-----------------|------|--|--|----|--|----|---------|---------|--------------------------------------------|
| 6600 CF 10 HWCP | 1,19 |  |  | HB |  | HB | 2,2-2,7 | 0,4/0,9 | elektr.leitfähig/ impr.electr.conductivity |
| 6600 CF 20 HWCP | 1,22 |  |  | HB |  | HB | 2- 2,5  | 0,2/0,7 | elektr.leitfähig/ impr.electr.conductivity |
| 6600 CF 30 HWCP | 1,27 |  |  | HB |  | HB | 1,8-2,3 | 0,2/0,7 | elektr.leitfähig/ impr.electr.conductivity |

### WELLAMID PA 66 mineralgefüllt & mineral-/glasfaserverstärkt /

### WELLAMID PA 66 mineral reinforced & mineral/ glass-fibre reinforced \*

|                      |      |  |  |    |  |    |         |          |  |
|----------------------|------|--|--|----|--|----|---------|----------|--|
| 6600 MR 209 HWCP     | 1,27 |  |  | HB |  | HB | 2-2,5   | 0,9 -1,1 |  |
| 6600 MR 309 HWCP     | 1,36 |  |  | HB |  | HB | 1,8-2,3 | 0,9-1,1  |  |
| 6600 MR 409 HWCP     | 1,45 |  |  | HB |  | HB | 1,5-2   | 0,9-1,1  |  |
| 6600 MRGV 20/20 HWCP | 1,48 |  |  | HB |  | HB | 1,5-2   | 0,4/0,7  |  |
| 6600 MRGV 25/15 HWCP | 1,48 |  |  | HB |  | HB | 1,5-2   | 0,5/0,7  |  |

### WELLAMID PA 66 glasfaser-/glaskugelverstärkt / WELLAMID PA 66 glass-fibre/ glass sphere reinforced\*

|                     |      |  |  |    |  |    |         |         |  |
|---------------------|------|--|--|----|--|----|---------|---------|--|
| 6600 GVS 20/10 HWCP | 1,35 |  |  | HB |  | HB | 1,8-2,5 | 0,5/0,7 |  |
|---------------------|------|--|--|----|--|----|---------|---------|--|

### WELLAMID PA 66 Spezialprodukte / WELLAMID PA 66 specialities

|                |      |  |  |    |  |    |         |         |                                    |
|----------------|------|--|--|----|--|----|---------|---------|------------------------------------|
| 6600 MZ 315 CP | 1,35 |  |  | HB |  | HB | 1,8-2,5 | 0,5/0,7 | wärmestabilisiert/ heat stabilized |
| 6600 MZ 401 CP | 1,48 |  |  | HB |  | HB | 1,8-2,5 | 0,5/0,6 | wärmestabilisiert/ heat stabilized |

### Please note:

This information and our technical advice - whether verbal, in writing or by trials - are given in good faith but without warranty. Our advice does not release you from the obligation to check and test our products as regards their suitability for the intended process and use.

Unless specified otherwise, the values given have been established on standardised test specimen at room temperature. The figures should be regarded as guide values, only, and not as binding minimum. Kindly note that under certain conditions the product may be affected to a considerable extent by processing conditions, design of mould and colouring.

Our products are sold in accordance with our "Conditions of Sales and Delivery".

\*Füll- und Verstärkungsstoffe in anderen Anteilen lieferbar/\*Share of reinforcing materials and fillers can be varied.

Obige Werte sind unverbindliche Richtwerte! / The figures should be regarded as guide values only !

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