

**Ultradid® A3WG7 CR bk564**  
**PA66-GF35**

BASF

| Rheological properties      | dry / cond | Unit      | Test Standard   |
|-----------------------------|------------|-----------|-----------------|
| <b>ISO Data</b>             |            |           |                 |
| Melt volume-flow rate, MVR  | 22 / *     | cm³/10min | ISO 1133        |
| Temperature                 | 275 / *    | °C        | -               |
| Load                        | 5 / *      | kg        | -               |
| Molding shrinkage, parallel | 0.4 / *    | %         | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 1.1 / *    | %         | ISO 294-4, 2577 |

| Mechanical Properties                   | dry / cond   | Unit  | Test Standard |
|-----------------------------------------|--------------|-------|---------------|
| <b>ISO Data</b>                         |              |       |               |
| Tensile Modulus                         | 11400 / 7600 | MPa   | ISO 527       |
| Stress at Break                         | 200 / 130    | MPa   | ISO 527       |
| Strain at Break                         | 3.1 / 4.4    | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 85 / 88      | kJ/m² | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 65 / 63      | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 10 / 14      | kJ/m² | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 8 / 8        | kJ/m² | ISO 179/1eA   |
| Flexural Modulus (23°C)                 | 10800 / 7200 | MPa   | ISO 178       |
| Flexural strength                       | 300 / 200    | MPa   | ISO 178       |

| Thermal Properties                        | dry / cond | Unit | Test Standard  |
|-------------------------------------------|------------|------|----------------|
| <b>ISO Data</b>                           |            |      |                |
| Melting Temperature (10°C/min)            | 260 / *    | °C   | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 250 / *    | °C   | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa) | 260 / *    | °C   | ISO 75-1/-2    |

| Electrical Properties | dry / cond | Unit  | Test Standard |
|-----------------------|------------|-------|---------------|
| <b>ISO Data</b>       |            |       |               |
| Electric Strength     | 40 / 34    | kV/mm | IEC 60243-1   |

| Other Properties | dry / cond | Unit  | Test Standard  |
|------------------|------------|-------|----------------|
| <b>ISO Data</b>  |            |       |                |
| Water Absorption | 5.5 / *    | %     | Sim. to ISO 62 |
| Density          | 1410 / -   | kg/m³ | ISO 1183       |
| Bulk density     | 700        | kg/m³ | -              |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 80        | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Melt temperature                            | 280 - 300 | °C   | -             |
| Mold temperature                            | 80 - 90   | °C   | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature            | 80        | °C   | -             |
| Pre-drying - Time                   | 4         | h    | -             |
| Melt temperature                    | 280 - 300 | °C   | -             |

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Special Characteristics**

Heat aging stabilized

**Delivery form**

Pellets