

# Durethan® BKV230H2.0 DUS008

## PA6-I-GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Improved Impact

| PROPERTIES                                | TYPICAL DATA      | UNIT  | TEST METHOD     |
|-------------------------------------------|-------------------|-------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |                   |       |                 |
|                                           | <b>DRY / COND</b> |       |                 |
| Molding shrinkage (parallel)              | 0.35 / *          | %     | ISO 294-4       |
| Molding shrinkage (normal)                | 0.8 / *           | %     | ISO 294-4       |
| <b>MECHANICAL PROPERTIES</b>              |                   |       |                 |
|                                           | <b>DRY / COND</b> |       |                 |
| Tensile modulus                           | 8400 / 4400       | MPa   | ISO 527-1/-2    |
| Stress at break                           | 130 / 80          | MPa   | ISO 527-1/-2    |
| Strain at break                           | 4 / 8             | %     | ISO 527-1/-2    |
| Flexural modulus                          | 7300 / 4400       | MPa   | ISO 178         |
| Flexural strength                         | 205 / 125         | MPa   | ISO 178         |
| Charpy impact strength (+23°C)            | 80 / 95           | kJ/m² | ISO 179/1eU     |
| Charpy impact strength (-30°C)            | 85 / 80           | kJ/m² | ISO 179/1eU     |
| Izod notched impact strength (+23°C)      | 20 / 35           | kJ/m² | ISO 180/1A      |
| <b>THERMAL PROPERTIES</b>                 |                   |       |                 |
|                                           | <b>DRY / COND</b> |       |                 |
| Melting temperature (10°C/min)            | 220 / *           | °C    | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa) | 198 / *           | °C    | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa) | 218 / *           | °C    | ISO 75-1/-2     |
| Burning Behav. at 3.0 mm nom. thickn.     | HB / *            | class | IEC 60695-11-10 |
| Thickness tested                          | 3 / *             | mm    | IEC 60695-11-10 |
| Burning Behav. at 0.75 mm nom. thickn.    | HB / *            | class | IEC 60695-11-10 |
| Thickness tested                          | 0.75 / *          | mm    | IEC 60695-11-10 |

## OTHER PROPERTIES

**DRY / COND**

Property Data

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| PROPERTIES                       | TYPICAL DATA | UNIT  | TEST METHOD          |
|----------------------------------|--------------|-------|----------------------|
| Density                          | 1320 / –     | kg/m³ | ISO 1183             |
| PROCESSING RECOMMENDATIONS       | VALUE        |       |                      |
| Drying temperature dry air dryer | 80           | °C    |                      |
| Drying time dry air dryer        | 2–6          | h     |                      |
| Residual moisture content        | 0.03–0.12    | %     | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax)   | 260–290      | °C    |                      |
| Mold temperature                 | 80–100       | °C    |                      |