

Durethan[®] BKV20GH2.0

PA6–GF20

20% Glass Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties

Print Date: 2024–08–24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.35 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.54 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 7600 / – | MPa | ISO 527–1/–2 |
| Stress at break | 150 / – | MPa | ISO 527–1/–2 |
| Strain at break | 3 / – | % | ISO 527–1/–2 |
| Flexural modulus | 6400 / – | MPa | ISO 178 |
| Flexural strength | 225 / – | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 45 / 60 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 40 / 40 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | <10 / – | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | <10 / – | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | <10 / <10 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 222 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 215 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 213 / * | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.23 / * | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.89 / * | E–4/°C | ISO 11359–1/–2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695–11–10 |
| Thickness tested | 1.5 / * | mm | IEC 60695–11–10 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|--------------------------|-------------|----------------------|
| Burning Behav. at 0.75 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| <i>ELECTRICAL PROPERTIES</i> | <i>DRY / COND</i> | | |
| Relative permittivity (100Hz) | 4.1 / 9.34 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 3.74 / 4.27 | – | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 80 / 2200 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 180 / 650 | E-4 | IEC 62631-2-1 |
| Volume resistivity | >1E13 / 1E10 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | * / 2E13 | Ohm | IEC 62631-3-2 |
| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
| Density | 1280 / – | kg/m³ | ISO 1183 |
| <i>MATERIAL SPECIFIC PROPERTIES</i> | <i>DRY / COND</i> | | |
| Viscosity number | 140 / * | cm³/g | ISO 307, 1157, 1628 |
| <i>PROCESSING RECOMMENDATIONS</i> | <i>VALUE</i> | | |
| 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) | 270-290 | °C | |
| Mold temperature | 80-120 | °C | |

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