

Durethan® BKV130GIT

PA*—I—GF30

30% Glass Reinforced, Injection Molding, Improved Impact

Print Date: 2024-08-24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|----------------------------------------------|-------------------|-------------------|-----------------|
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 8800 / 5000 | MPa | ISO 527-1/-2 |
| Stress at break | 160 / 95 | MPa | ISO 527-1/-2 |
| Strain at break | 3.5 / 8.9 | % | ISO 527-1/-2 |
| Flexural modulus | 8200 / 4500 | MPa | ISO 178 |
| Flexural strength | 250 / 140 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 85 / 85 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 65 / 60 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 15 / 20 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 10 / 10 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 15 / 15 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 213 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 190 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 210 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.2 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.9 / * | 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 |
| Oxygen index | 24 / * | % | ISO 4589-1/-2 |
| Glow Wire Flammability Index GWFI | 650 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 2 / - | mm | IEC 60695-2-12 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--------------------------------------------|---------------------|--------------------|----------------------|
| <i>ELECTRICAL PROPERTIES</i> | | | |
| <i>DRY / COND</i> | | | |
| Relative permittivity (100Hz) | 4.5 / 12 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 4 / 4.5 | – | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 70 / 1600 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 200 / 900 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E13 / 1E10 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | * / 1E14 | Ohm | IEC 62631-3-2 |
| Electric strength | 32 / 32 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / – | V | IEC 60112 |
| <i>OTHER PROPERTIES</i> | | | |
| <i>DRY / COND</i> | | | |
| Water absorption | 6.5 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.9 / * | % | Sim. to ISO 62 |
| Density | 1360 / – | kg/m ³ | ISO 1183 |
| <i>MATERIAL SPECIFIC PROPERTIES</i> | | | |
| <i>DRY / COND</i> | | | |
| Viscosity number | 134 / * | cm ³ /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) | 260-290 | °C | |
| Mold temperature | 80-100 | °C | |

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