

Durethan[®] BTC67ZH3.0EF

PA6–MX67

67% Mineral Reinforced, Injection Molding, Heat Stabilized, Thermal conductive material

Print Date: 2024–08–24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.9 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.7 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 8800 / 3000 | MPa | ISO 527–1/–2 |
| Stress at break | 90 / 55 | MPa | ISO 527–1/–2 |
| Strain at break | 3.5 / 13 | % | ISO 527–1/–2 |
| Flexural modulus | 8900 / 3300 | MPa | ISO 178 |
| Flexural strength | 170 / 90 | MPa | ISO 178 |
| Tensile modulus (200°C) | 723 | MPa | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 70 / 170 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 50 / 50 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | <10 / <10 | 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) | <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) | 120 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 189 / * | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.5 / * | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.5 / * | E–4/°C | ISO 11359–1/–2 |
| Thermal conductivity in plane | 1.1 | W/(m K) | ASTM E1461 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|--------------------------|-------------|--------------------|
| Thermal conductivity through plane | 1 | W/(m K) | ASTM E1461 |
| 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> | | |
| Volume resistivity | >1E13 / - | Ohm*m | IEC 62631-3-1 |
| Electric strength | 33 / - | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / - | V | IEC 60112 |
| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
| Density | 2170 / - | kg/m³ | ISO 1183 |
| <i>PROCESSING RECOMMENDATIONS</i> | <i>VALUE</i> | | |
| Drying temperature dry air dryer | 80 | °C | |
| Drying time dry air dryer | 2-6 | h | |
| Melt temperature (Tmin – Tmax) | 280-300 | °C | |
| Mold temperature | 80-120 | °C | |

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