

Durethan[®] BKV30FN04 DUS064

PA6–GF30 FR(40)

30% Glass Reinforced, Injection Molding, Flame Retardant (halogen free), Heat Stabilized

Print Date: 2024–08–24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.2 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.7 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 11000 / 7000 | MPa | ISO 527–1/–2 |
| Stress at break | 140 / 95 | MPa | ISO 527–1/–2 |
| Strain at break | 3.1 / 6 | % | ISO 527–1/–2 |
| Flexural modulus | 10200 / 6600 | MPa | ISO 178 |
| Flexural strength | 235 / 160 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 60 / 70 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | <10 / 13 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | <10 / 13 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 220 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 205 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 219 / * | °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) | 0.8 / * | E–4/°C | ISO 11359–1/–2 |
| Burning Behav. at 1.5 mm nom. thickn. | V–0 / * | class | IEC 60695–11–10 |
| Thickness tested | 1.5 / * | mm | IEC 60695–11–10 |
| Glow Wire Flammability Index GWFI | 960 / – | °C | IEC 60695–2–12 |
| GWFI (Thickness (1) tested) | 1.5 / – | 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> |
|--|--------------------------|-------------------|----------------------|
| Glow Wire Flammability Index GWFI | 960 / – | °C | IEC 60695-2-12 |
| GWFI (Thickness (2) tested) | 3 / – | mm | IEC 60695-2-12 |
| <i>ELECTRICAL PROPERTIES</i> | <i>DRY / COND</i> | | |
| Electric strength | 35 / – | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / – | V | IEC 60112 |
| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
| Water absorption | 4.8 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.6 / * | % | Sim. to ISO 62 |
| Density | 1420 / – | kg/m ³ | ISO 1183 |
| <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 | 0.03-0.07 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 250-280 | °C | |
| Mold temperature | 70-90 | °C | |

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