

Durethan[®] ECOBKV60XF

PA6–GF60

60% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow, Recycled Content

Print Date: 2024–08–24

Sustainability

Mass balanced
 Recycled based

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.25 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.52 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 20200 / 13000 | MPa | ISO 527–1/–2 |
| Stress at break | 215 / 140 | MPa | ISO 527–1/–2 |
| Strain at break | 2.3 / 2.8 | % | ISO 527–1/–2 |
| Flexural modulus | 18500 / 14000 | MPa | ISO 178 |
| Flexural strength | 350 / 230 | MPa | ISO 178 |
| Tensile modulus (200°C) | 5760 | MPa | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 88 / – | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 15 / – | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 15 / – | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 221 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 208 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 217 / * | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.11 / * | E–4/°C | ISO 11359–1/–2 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|--------------------------|-------------|----------------------|
| Coeff. of linear therm. expansion (normal) | 0.85 / * | E-4/°C | ISO 11359-1/-2 |
| <i>OTHER PROPERTIES</i> | | | |
| | <i>DRY / COND</i> | | |
| Density | 1690 / – | 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 | |
| Residual moisture content | 0.05–0.15 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 270–290 | °C | |
| Mold temperature | 80–120 | °C | |

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