

Akulon[®] Diablo HT–HG0

(PA66+PA6)–GF50

50% Glass Reinforced, Heat Stabilized

Print Date: 2024–04–10

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|-------------------|-------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.3 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 1 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 16500 / 10000 | MPa | ISO 527–1/–2 |
| Stress at break | 235 / 145 | MPa | ISO 527–1/–2 |
| Strain at break | 2.8 / 4.6 | % | ISO 527–1/–2 |
| Flexural modulus | 16000 / – | MPa | ISO 178 |
| Flexural strength | 360 / – | MPa | ISO 178 |
| Tensile modulus (200°C) | 4100 | MPa | ISO 527–1/–2 |
| Stress at break (200°C) | 60 | MPa | ISO 527–1/–2 |
| Strain at break (200°C) | 7.2 | % | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 95 / 100 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 80 / 90 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 15.5 / 25 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 14 / 16 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 260 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 245 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 255 / * | °C | ISO 75–1/–2 |
| OTHER PROPERTIES | | | |
| | DRY / COND | | |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|---------------------|---------------------|-------------------|--------------------|
| Water absorption | 4.8 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.7 / * | % | Sim. to ISO 62 |
| Density | 1580 / – | kg/m ³ | ISO 1183 |

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