

Akulon[®] RePurposed RE15 BK00003

PA6–GF15

15% Glass Reinforced, Recycled Content

Print Date: 2024–06–02

Sustainability

Recycled based

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.35 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 1 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 6000 / 3300 | MPa | ISO 527–1/–2 |
| Stress at break | 120 / 70 | MPa | ISO 527–1/–2 |
| Strain at break | 2.8 / 12 | % | ISO 527–1/–2 |
| Flexural modulus | 5200 / 3200 | MPa | ISO 178 |
| Flexural strength | 170 / 105 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 40 / 80 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 35 / – | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 6 / 9 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 5 / – | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 220 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 195 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 215 / * | °C | ISO 75–1/–2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695–11–10 |
| Thickness tested | 1.6 / * | mm | IEC 60695–11–10 |

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|---------------------------------------|--------------------------|-------------------|--------------------|
| Burning Behav. at 3.0 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 3.2 / * | mm | IEC 60695-11-10 |
| Glow Wire Flammability Index GWFI | 675 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 0.8 / - | mm | IEC 60695-2-12 |
| Glow Wire Flammability Index GWFI | 675 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (2) tested) | 3 / - | mm | IEC 60695-2-12 |
| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
| Water absorption | 7.6 / * | % | Sim. to ISO 62 |
| Humidity absorption | 2.5 / * | % | Sim. to ISO 62 |
| Density | 1240 / - | kg/m ³ | ISO 1183 |

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