

Akulon[®] GA-XLG0

PA6/Semi-aromatic polymer-GF50

50% Glass Reinforced, UV Stabilized

Print Date: 2024-10-15

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.15 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.3 / * | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 16500 / 12500 | MPa | ISO 527-1/-2 |
| Stress at break | 220 / 165 | MPa | ISO 527-1/-2 |
| Strain at break | 2.5 / 5 | % | ISO 527-1/-2 |
| Flexural modulus | 14500 / 12000 | MPa | ISO 178 |
| Flexural strength | 335 / 275 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 13 / 16 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 12 / 12 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 222 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 200 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 215 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.15 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.6 / * | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | IEC 60695-11-10 |
| Burning Behav. at 3.0 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|-------------------------------------|---------------------|--------------------------|--------------------|
| Thickness tested | 3 / * | mm | IEC 60695-11-10 |
| <i>ELECTRICAL PROPERTIES</i> | | <i>DRY / COND</i> | |
| Volume resistivity | >1E13 / - | Ohm*m | IEC 62631-3-1 |
| Electric strength | 23 / 21 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 450 / - | V | IEC 60112 |
| <i>OTHER PROPERTIES</i> | | <i>DRY / COND</i> | |
| Humidity absorption | 1.7 / * | % | Sim. to ISO 62 |
| Density | 1570 / - | kg/m ³ | ISO 1183 |

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