

Akulon® Ultraflow K-FHGo

PA6-GF50

50% Glass Reinforced, Heat Stabilized, High Flow

Print Date: 2019-08-16

| Properties | Typical Data | Unit | Test Method |
|--|---------------|-------------------|-----------------|
| Rheological properties | | | |
| | dry / cond | | |
| Molding shrinkage (parallel) | 0.2 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.9 / * | % | ISO 294-4 |
| Mechanical properties | | | |
| | dry / cond | | |
| Tensile modulus | 16500 / 11000 | MPa | ISO 527-1/-2 |
| Stress at break | 220 / 155 | MPa | ISO 527-1/-2 |
| Strain at break | 2.5 / 5 | % | ISO 527-1/-2 |
| Flexural modulus | 15500 / - | MPa | ISO 178 |
| Flexural strength | 335 / - | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 90 / 100 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 85 / 85 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 15 / 25 | 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) | 220 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 210 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 220 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.3 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.4 / * | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | IEC 60695-11-10 |
| Glow Wire Flammability Index GWFI | 800 / - | °C | IEC 60695-2-12 |

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| GWFI (Thickness (1) tested) | 3.1 / - | mm | IEC 60695-2-12 |
| Electrical properties | dry / cond | | |
| Relative permittivity (100Hz) | 3.5 / 14 | - | IEC 60250 |
| Relative permittivity (1 MHz) | 5.2 / 4.5 | - | IEC 60250 |
| Dissipation factor (100 Hz) | 50 / 3000 | E-4 | IEC 60250 |
| Dissipation factor (1 MHz) | 150 / 1200 | E-4 | IEC 60250 |
| Comparative tracking index | 500 / - | V | IEC 60112 |
| Other properties | dry / cond | | |
| Water absorption | 4.5 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.4 / * | % | Sim. to ISO 62 |
| Density | 1560 / - | kg/m ³ | ISO 1183 |