

Akulon® K224-LG6 /E

PA6-GF30

30% Glass Reinforced, Injection Molding, Improved UV-stability

Print Date: 2019-10-08

| Properties | Typical Data | Unit | Test Method |
|--|--------------|-------------------|-----------------|
| Rheological properties | | | |
| | dry / cond | | |
| Molding shrinkage (parallel) | 0.2 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 1.1 / * | % | ISO 294-4 |
| Mechanical properties | | | |
| | dry / cond | | |
| Tensile modulus | 9500 / 6000 | MPa | ISO 527-1/-2 |
| Stress at break | 180 / 110 | MPa | ISO 527-1/-2 |
| Strain at break | 3.5 / 7 | % | ISO 527-1/-2 |
| Flexural modulus | 8600 / - | MPa | ISO 178 |
| Flexural strength | 235 / - | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 90 / 110 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 75 / 75 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 12 / 25 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 11 / 11 | 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) | 0.2 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.7 / * | 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 thickness h | HB / * | class | IEC 60695-11-10 |

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|-------------------------------|-------------------|-------------------|-----------------|
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| Electrical properties | dry / cond | | |
| Relative permittivity (100Hz) | 3.5 / 20 | - | IEC 60250 |
| Relative permittivity (1 MHz) | 3.3 / 5 | - | IEC 60250 |
| Dissipation factor (100 Hz) | 50 / 3000 | E-4 | IEC 60250 |
| Dissipation factor (1 MHz) | 150 / 1200 | E-4 | IEC 60250 |
| Volume resistivity | 1E12 / 1E10 | Ohm*m | IEC 60093 |
| Surface resistivity | - / 1E13 | Ohm | IEC 60093 |
| Electric strength | 30 / 25 | kV/mm | IEC 60243-1 |
| Comparative tracking index | * / 500 | V | IEC 60112 |
| Other properties | dry / cond | | |
| Water absorption | 6.3 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.9 / * | % | Sim. to ISO 62 |
| Density | 1350 / - | kg/m ³ | ISO 1183 |