

Akulon® K224–PG6

PA6–I–GF30

30% Glass Reinforced, Impact Modified

Print Date: 2024–12–03

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|--------|-----------------|
| RHEOLOGICAL PROPERTIES | DRY / COND | | |
| Molding shrinkage (parallel) | 0.39 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 1 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | DRY / COND | | |
| Tensile modulus | 8700 / 4750 | MPa | ISO 527–1/–2 |
| Stress at break | 150 / 105 | MPa | ISO 527–1/–2 |
| Strain at break | 5 / 10 | % | ISO 527–1/–2 |
| Flexural modulus | 8500 / 4900 | MPa | ISO 178 |
| Flexural strength | 250 / 140 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 95 / 110 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 100 / 100 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 23 / 43 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 15 / 15 | kJ/m² | ISO 179/1eA |
| THERMAL PROPERTIES | DRY / COND | | |
| 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) | 0.2 / * | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.9 / * | E–4/°C | ISO 11359–1/–2 |
| Burning Behav. at 3.0 mm nom. thickn. | HB / * | class | IEC 60695–11–10 |
| Thickness tested | 3 / * | mm | IEC 60695–11–10 |
| Burning Behav. at 0.75 mm nom. thickn. | HB / * | class | IEC 60695–11–10 |
| Thickness tested | 0.75 / * | mm | IEC 60695–11–10 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|-------------------------------|-------------------|-------|----------------|
| ELECTRICAL PROPERTIES | | | |
| | DRY / COND | | |
| Relative permittivity (100Hz) | 3.8 / 14 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.5 / 4.5 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 90 / 3000 | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 150 / 1200 | E–4 | IEC 62631–2–1 |
| Volume resistivity | 1E13 / 1E11 | Ohm*m | IEC 62631–3–1 |
| Surface resistivity | – / 1E14 | Ohm | IEC 62631–3–2 |
| Electric strength | 30 / 25 | kV/mm | IEC 60243–1 |
| Comparative tracking index | – / 600 | V | IEC 60112 |
| OTHER PROPERTIES | | | |
| | DRY / COND | | |
| Water absorption | 5.7 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.7 / * | % | Sim. to ISO 62 |
| Density | 1320 / – | kg/m³ | ISO 1183 |

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