

Akulon[®] K223–KMV6

PA6–MD30 FR(17)

30% Mineral Reinforced, Heat Stabilized, Flame Retardant

Print Date: 2024–03–27

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.63 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.63 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 6600 / 3500 | MPa | ISO 527–1/–2 |
| Stress at break | 70 / 40 | MPa | ISO 527–1/–2 |
| Strain at break | 2.5 / 4 | % | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 35 / 60 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 35 / 35 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 2 / 2 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 2 / 2 | 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) | 120 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 205 / * | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.5 / * | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.5 / * | E–4/°C | ISO 11359–1/–2 |
| Burning Behav. at 1.5 mm nom. thickn. | V–2 / * | class | IEC 60695–11–10 |
| Thickness tested | 1.5 / * | mm | IEC 60695–11–10 |
| Burning Behav. at 3.0 mm nom. thickn. | V–0 / * | class | IEC 60695–11–10 |
| Thickness tested | 3 / * | mm | IEC 60695–11–10 |
| Glow Wire Flammability Index GWFI | 960 / – | °C | IEC 60695–2–12 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|-------------------------------------|---------------------|-------------|--------------------|
| GWFI (Thickness (1) tested) | 1 / – | mm | IEC 60695–2–12 |
| Glow Wire Flammability Index GWFI | 960 / – | °C | IEC 60695–2–12 |
| GWFI (Thickness (2) tested) | 3 / – | mm | IEC 60695–2–12 |
| Glow Wire Ignition Temperature GWIT | 725 / – | °C | IEC 60695–2–13 |
| GWIT (Thickness (1) tested) | 0.75 / – | mm | IEC 60695–2–13 |
| Glow Wire Ignition Temperature GWIT | 775 / – | °C | IEC 60695–2–13 |
| GWIT (Thickness (2) tested) | 3 / – | mm | IEC 60695–2–13 |

ELECTRICAL PROPERTIES

DRY / COND

| | | | |
|-------------------------------|-------------|-------|---------------|
| Relative permittivity (100Hz) | 3.6 / 10 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.2 / 3.7 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 85 / 3000 | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 140 / 900 | 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 | 375 / 375 | V | IEC 60112 |

OTHER PROPERTIES

DRY / COND

| | | | |
|---------------------|----------|-------------------|----------------|
| Water absorption | 6.2 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.7 / * | % | Sim. to ISO 62 |
| Density | 1530 / – | kg/m ³ | ISO 1183 |

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