

Akulon[®] K224–G6–FC NA99001

PA6–GF30

30% Glass Reinforced, Food Contact Quality

Print Date: 2024–10–15

Food contact declaration can be issued on request

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.3 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.9 / * | % | 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) | 200 / * | °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 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------|--------------------|
| 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 |

ELECTRICAL PROPERTIES

DRY / COND

| | | | |
|-------------------------------|-------------|-------|---------------|
| Relative permittivity (100Hz) | 3.5 / 20 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 3.3 / 5 | – | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 50 / 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 | 6.3 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.9 / * | % | Sim. to ISO 62 |
| Density | 1350 / – | kg/m ³ | ISO 1183 |

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