

Pocan[®] KL1-7265

PBT-GF15

15% Glass Reinforced, Injection Molding, General purpose

Print Date: 2024-12-10

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|--------------|------------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate | 25 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 1.2 | % | ISO 294-4 |
| Molding shrinkage (parallel) | 0.7 | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Tensile modulus | 6000 | MPa | ISO 527-1/-2 |
| Stress at break | 105 | MPa | ISO 527-1/-2 |
| Strain at break | 3.5 | % | ISO 527-1/-2 |
| Flexural modulus | 5600 | MPa | ISO 178 |
| Flexural strength | 170 | MPa | ISO 178 |
| Flexural strain at flexural strength | 4.2 | % | ISO 178-A |
| Charpy impact strength (+23°C) | 30 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 30 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 6 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 6 | kJ/m ² | ISO 179/1eA |
| Izod impact strength (-30°C) | 25 | kJ/m ² | ISO 180-1U |
| THERMAL PROPERTIES | | | |
| | VALUE | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 195 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 220 | °C | ISO 75-1/-2 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------|--------------------|
| Coeff. of linear therm. expansion (parallel) | 0.4 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 1.2 | 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 3.0 mm nom. thickn. | HB | class | IEC 60695–11–10 |
| Thickness tested | 3 | mm | IEC 60695–11–10 |
| Oxygen index | 20 | % | ISO 4589–1/–2 |
| Glow Wire Flammability Index GWFI | 650 | °C | IEC 60695–2–12 |
| GWFI (Thickness (1) tested) | 2 | mm | IEC 60695–2–12 |

| <i>ELECTRICAL PROPERTIES</i> | <i>VALUE</i> | | |
|----------------------------------|--------------|-------|---------------|
| Relative permittivity (100Hz) | 3.6 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.5 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 30 | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 200 | E–4 | IEC 62631–2–1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631–3–1 |
| Surface resistivity | >1E15 | Ohm | IEC 62631–3–2 |
| Electric strength | 25 | kV/mm | IEC 60243–1 |
| Comparative tracking index | 300 | V | IEC 60112 |
| Comparative tracking index (PLC) | 1 | class | UL 746A |

| <i>OTHER PROPERTIES</i> | <i>VALUE</i> | | |
|-------------------------|--------------|-------------------|----------------|
| Water absorption | 0.4 | % | Sim. to ISO 62 |
| Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| Density | 1410 | kg/m ³ | ISO 1183 |

| <i>PROCESSING RECOMMENDATIONS</i> | <i>VALUE</i> | | |
|--|--------------|----|--|
| Drying temperature circulating air dryer | 120 | °C | |
| Drying time circulating air dryer | 4–8 | h | |

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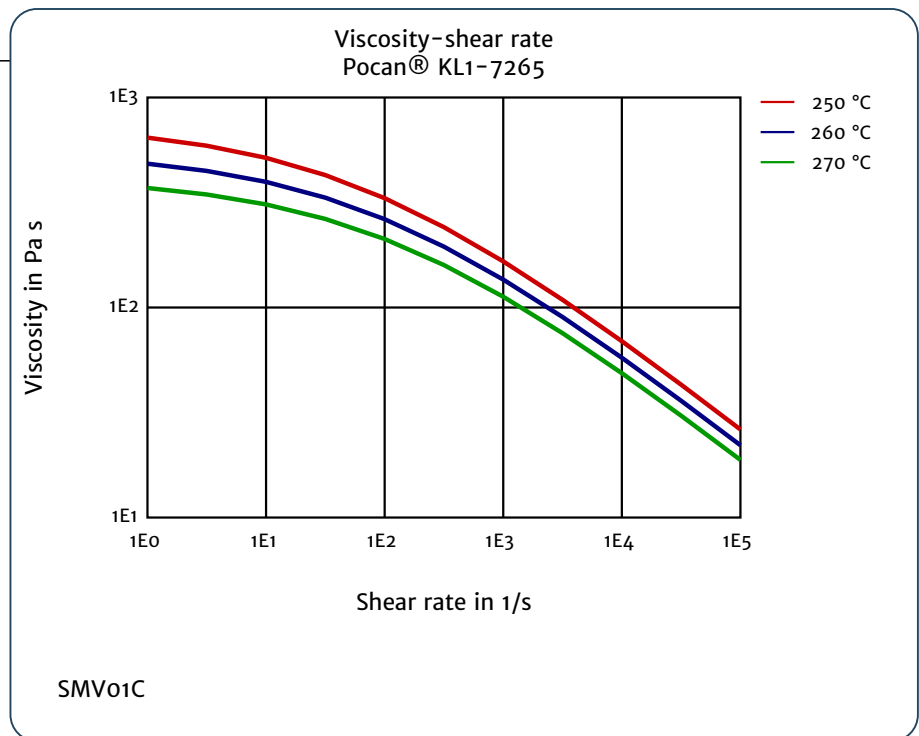
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| Residual moisture content | 0.00–0.02 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 250–270 | °C | |
| Mold temperature | 80–100 | °C | |

Viscosity–shear rate



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