

Pocan[®] T7391 000000

(PBT+PET)–GF45

45% Glass Reinforced, Injection Molding, Excellent Surface Properties

Print Date: 2024–06–28

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|--------------|------------------------|--------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume–flow rate | 30 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 5 | kg | ISO 1133 |
| Molding shrinkage (normal) | 0.8 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 0.2 | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Tensile modulus | 16000 | MPa | ISO 527–1/–2 |
| Stress at break | 160 | MPa | ISO 527–1/–2 |
| Strain at break | 1.9 | % | ISO 527–1/–2 |
| Flexural modulus | 15500 | MPa | ISO 178 |
| Flexural strength | 260 | MPa | ISO 178 |
| Flexural strain at flexural strength | 2.1 | % | ISO 178–A |
| Charpy impact strength (+23°C) | 60 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 65 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | | kJ/m ² | ISO 179/1eA |
| Izod impact strength (+23°C) | 55 | kJ/m ² | ISO 180/1U |
| Izod impact strength (–30°C) | 60 | kJ/m ² | ISO 180–1U |
| THERMAL PROPERTIES | | | |
| | VALUE | | |
| Temp. of deflection under load (1.80 MPa) | 205 | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 225 | °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) | 0.2 | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.8 | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 0.75 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 0.75 | mm | IEC 60695-11-10 |
| Burning Behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | IEC 60695-11-10 |
| Oxygen index | 21 | % | ISO 4589-1/-2 |
| Glow Wire Flammability Index GWFI | 750 | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 2 | mm | IEC 60695-2-12 |

ELECTRICAL PROPERTIES

VALUE

| | | | |
|-------------------------------|-------|-------|---------------|
| Relative permittivity (100Hz) | 4.3 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 4.2 | – | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 20 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 140 | 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 | 28 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 275 | V | IEC 60112 |

OTHER PROPERTIES

VALUE

| | | | |
|---------------------|------|-------------------|----------------|
| Water absorption | 0.3 | % | Sim. to ISO 62 |
| Humidity absorption | 0.1 | % | Sim. to ISO 62 |
| Density | 1690 | kg/m ³ | ISO 1183 |

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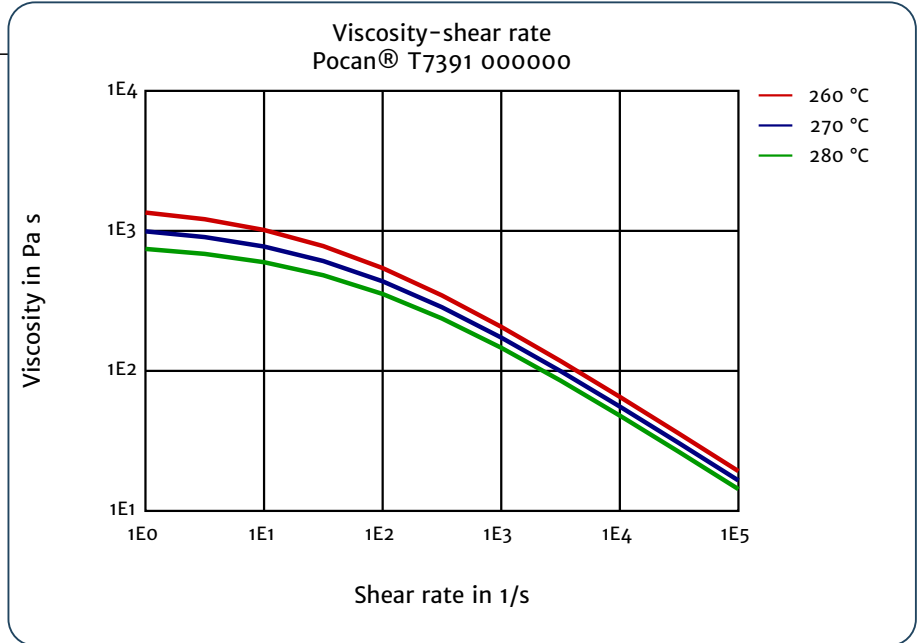
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Viscosity-shear rate



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