

Pocan[®] A3121

(PBT+ASA)–I–GF20

20% Glass Reinforced, Injection Molding, Excellent Surface Properties, Low Warpage

Print Date: 2024–09–26

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume–flow rate | 20 | cm ³ /10min | ISO 1133 |
| Temperature | 270 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 0.7 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 0.3 | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Tensile modulus | 7000 | MPa | ISO 527–1/–2 |
| Stress at break | 110 | MPa | ISO 527–1/–2 |
| Strain at break | 2.9 | % | ISO 527–1/–2 |
| Flexural modulus | 7000 | MPa | ISO 178 |
| Flexural strength | 170 | MPa | ISO 178 |
| Flexural strain at flexural strength | 3.2 | % | ISO 178–A |
| Charpy impact strength (+23°C) | 55 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 40 | kJ/m ² | ISO 179/1eU |
| Izod impact strength (+23°C) | 50 | kJ/m ² | ISO 180/1U |
| Izod impact strength (–30°C) | 45 | kJ/m ² | ISO 180–1U |
| THERMAL PROPERTIES | | | |
| | VALUE | | |
| Temp. of deflection under load (1.80 MPa) | 175 | °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) | 0.3 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.9 | E–4/°C | ISO 11359–1/–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> |
|--|---------------------|-------------|--------------------|
| 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 |

| <i>ELECTRICAL PROPERTIES</i> | <i>VALUE</i> | | |
|------------------------------|--------------|---|-----------|
| Comparative tracking index | 250 | V | IEC 60112 |

| <i>OTHER PROPERTIES</i> | <i>VALUE</i> | | |
|-------------------------|--------------|-------------------|----------------|
| Water absorption | 0.4 | % | Sim. to ISO 62 |
| Humidity absorption | 0.1 | % | Sim. to ISO 62 |
| Density | 1430 | 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 | |
| Residual moisture content | 0.00-0.02 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 260-280 | °C | |
| Mold temperature | 80-100 | °C | |

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