

Pocan[®] BF4212

PBT–GF15 FR(17)

15% Glass Reinforced

| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|---|---------------------|------------------------|--------------------|
| <i>RHEOLOGICAL PROPERTIES</i> | | | |
| | <i>VALUE</i> | | |
| Melt volume–flow rate | 14 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 1.1 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 0.7 | % | ISO 294–4 |
| <i>MECHANICAL PROPERTIES</i> | | | |
| | <i>VALUE</i> | | |
| Tensile modulus | 7000 | MPa | ISO 527–1/–2 |
| Stress at break | 110 | MPa | ISO 527–1/–2 |
| Strain at break | 2.6 | % | ISO 527–1/–2 |
| Flexural modulus | 6200 | MPa | ISO 178 |
| Flexural strength | 160 | MPa | ISO 178 |
| Flexural strain at flexural strength | 3.4 | % | ISO 178–A |
| Izod impact strength (+23°C) | 25 | kJ/m ² | ISO 180/1U |
| Izod impact strength (–30°C) | 25 | kJ/m ² | ISO 180–1U |
| <i>THERMAL PROPERTIES</i> | | | |
| | <i>VALUE</i> | | |
| Melting temperature (10°C/min) | 222 | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 190 | °C | ISO 75–1/–2 |
| Burning Behav. at 0.75 mm nom. thickn. | V–0 | class | IEC 60695–11–10 |
| Thickness tested | 0.75 | mm | IEC 60695–11–10 |
| Burning Behav. at 1.5 mm nom. thickn. | V–0 | class | IEC 60695–11–10 |
| Thickness tested | 1.5 | mm | IEC 60695–11–10 |

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. | 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 |
| GWFI (Thickness (1) tested) | 0.75 | mm | IEC 60695-2-12 |
| Glow Wire Flammability Index GWFI | 960 | °C | IEC 60695-2-12 |
| GWFI (Thickness (2) tested) | 1.5 | mm | IEC 60695-2-12 |
| Glow Wire Ignition Temperature GWIT | 850 | °C | IEC 60695-2-13 |
| GWIT (Thickness (1) tested) | 0.75 | mm | IEC 60695-2-13 |
| Glow Wire Ignition Temperature GWIT | 750 | °C | IEC 60695-2-13 |
| GWIT (Thickness (2) tested) | 1.5 | mm | IEC 60695-2-13 |
| Glow Wire Ignition Temperature GWIT | 725 | °C | IEC 60695-2-13 |
| GWIT (Thickness (3) tested) | 3 | mm | IEC 60695-2-13 |

ELECTRICAL PROPERTIES

VALUE

| | | | |
|----------------------------------|-------|-------|---------------|
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| Electric strength | 29 | kV/mm | IEC 60243-1 |
| Comparative tracking index (PLC) | 3 | class | UL 746A |

OTHER PROPERTIES

VALUE

| | | | |
|---------------------|------|-------------------|----------------|
| Water absorption | 0.4 | % | Sim. to ISO 62 |
| Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| Density | 1530 | kg/m ³ | ISO 1183 |

PROCESSING RECOMMENDATIONS

VALUE

| | | | |
|--|---------|----|--|
| Drying temperature circulating air dryer | 120 | °C | |
| Drying time circulating air dryer | 4-8 | h | |
| Melt temperature (Tmin – Tmax) | 240-260 | °C | |
| Mold temperature | 80-100 | °C | |

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Viscosity–shear rate

