Property Data

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# Pocan® BF4225

## PBT-GF20 FR(17)

*20% Glass Fiber Reinforced, Injection Molding, Flame Retardant*

Print Date: 2025-10-04

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | **VALUE** | | |
| Melt volume-flow rate | 19 | cm³/10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 1.2 | % | ISO 294-4 |
| Molding shrinkage (parallel) | 0.5 | % | ISO 294-4 |
| **MECHANICAL PROPERTIES** | **VALUE** | | |
| Tensile modulus | 8300 | MPa | ISO 527-1/-2 |
| Stress at break | 120 | MPa | ISO 527-1/-2 |
| Strain at break | 2.5 | % | ISO 527-1/-2 |
| Flexural modulus | 8100 | MPa | ISO 178 |
| Flexural strength | 180 | MPa | ISO 178 |
| Flexural strain at flexural strength | 3.1 | % | ISO 178-A |
| Charpy impact strength (+23°C) | 45 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 40 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 4.8 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 4.8 | kJ/m² | ISO 179/1eA |
| Izod impact strength (+23°C) | 40 | kJ/m² | ISO 180/1U |
| Izod impact strength (-30°C) | 35 | kJ/m² | 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) | 200 | °C | ISO 75-1/-2 |

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|---|---|---|---|
| Temp. of deflection under load (0.45 MPa) | 220 | °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) | 1 | E–4/°C | ISO 11359–1/–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 |
| 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 | 725 | °C | IEC 60695–2–13 |
| GWIT (Thickness (1) tested) | 0.75 | mm | IEC 60695–2–13 |
| Glow Wire Ignition Temperature GWIT | 725 | °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 | | |
|---|---|---|---|
| Relative permittivity (100Hz) | 3.8 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.6 | – | IEC 62631–2–1 |
| Electric strength | 29 | kV/mm | IEC 60243–1 |
| Comparative tracking index | 175 | V | IEC 60112 |
| Comparative tracking index (PLC) | 2 | class | UL 746A |

| OTHER PROPERTIES | VALUE | | |
|---|---|---|---|
| Density | 1590 | kg/m³ | ISO 1183 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **PROCESSING RECOMMENDATIONS** | **VALUE** | | |
| 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) | 240–260 | °C | |
| Mold temperature | 80–100 | °C | |

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