*Property Data*

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# Pocan® B3216HR

## PBT–I–GF16

*Injection Molding, 16% Glass Fiber Reinforced, Hydrolysis Stabilized, Impact Modified*

Print Date: 2026–01–14

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | **VALUE** | | |
| Melt volume–flow rate (MVR) | 24 | cm³/10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 1 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 0.6 | % | ISO 294–4 |
| **MECHANICAL PROPERTIES** | **VALUE** | | |
| Tensile modulus | 5900 | MPa | ISO 527–1/–2 |
| Stress at break | 100 | MPa | ISO 527–1/–2 |
| Strain at break | 3.7 | % | ISO 527–1/–2 |
| Flexural modulus | 5600 | MPa | ISO 178 |
| Flexural strength | 165 | MPa | ISO 178 |
| Flexural strain at flexural strength | 4.4 | % | ISO 178–A |
| Charpy impact strength (+23°C) | 50 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 35 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 5.7 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 5.2 | kJ/m² | ISO 179/1eA |
| Izod impact strength (+23°C) | 45 | kJ/m² | ISO 180/1U |
| Izod impact strength (–30°C) | 30 | 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) | 190 | °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) | 0.4 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 1.3 | 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 |
| Glow Wire Flammability Index GWFI | 750 | °C | IEC 60695–2–12 |
| GWFI (Thickness (1) tested) | 0.75 | mm | IEC 60695–2–12 |
| Glow Wire Flammability Index GWFI | 750 | °C | IEC 60695–2–12 |
| GWFI (Thickness (2) tested) | 1 | mm | IEC 60695–2–12 |
| Glow Wire Ignition Temperature GWIT | 775 | °C | IEC 60695–2–13 |
| GWIT (Thickness (1) tested) | 0.75 | mm | IEC 60695–2–13 |
| Glow Wire Ignition Temperature GWIT | 775 | °C | IEC 60695–2–13 |
| GWIT (Thickness (2) tested) | 1 | mm | IEC 60695–2–13 |
| Glow Wire Ignition Temperature GWIT | 750 | °C | IEC 60695–2–13 |
| GWIT (Thickness (3) tested) | 1.5 | mm | IEC 60695–2–13 |
| Glow Wire Ignition Temperature GWIT | 775 | °C | IEC 60695–2–13 |
| GWIT (Thickness (4) 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 | 36 | kV/mm | IEC 60243–1 |
| Comparative tracking index | 300 | V | IEC 60112 |

| OTHER PROPERTIES | VALUE | | |
|---|---|---|---|
| Density | 1400 | kg/m³ | ISO 1183 |

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| **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) | 250–270 | °C | |
| Mold temperature | 80–100 | °C | |

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