Property Data

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# Pocan® B1305 M25B2

Pocan® B1305 B–MB

## PBT

*Injection Molding, Unreinforced, General purpose*

Print Date: 2026–04–09

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | **VALUE** | | |
| Melt volume–flow rate (MVR) | 47 | cm³/10min | ISO 1133 |
| Temperature | 250 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 2 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 2 | % | ISO 294–4 |
| **MECHANICAL PROPERTIES** | **VALUE** | | |
| Tensile modulus | 2800 | MPa | ISO 527–1/–2 |
| Yield stress | 60 | MPa | ISO 527–1/–2 |
| Yield strain | 9 | % | ISO 527–1/–2 |
| Flexural modulus | 2700 | MPa | ISO 178 |
| Flexural strength | 90 | MPa | ISO 178 |
| Flexural strain at flexural strength | 6 | % | ISO 178–A |
| Charpy impact strength (+23°C) | 180 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 150 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 2.8 | kJ/m² | ISO 179/1eA |
| Izod impact strength (+23°C) | 125 | kJ/m² | ISO 180/1U |
| Izod impact strength (–30°C) | 90 | 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) | 65 | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 155 | °C | ISO 75–1/–2 |

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|---|---|---|---|
| Coeff. of linear therm. expansion (parallel) | 1.1 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 1.1 | 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 |
| Burning Behav. at 3.0 mm nom. thickn. | HB | class | IEC 60695–11–10 |
| Thickness tested | 3 | mm | IEC 60695–11–10 |
| Oxygen index | 24 | % | 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) | 3.4 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.2 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 15 | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 190 | 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 | 30 | kV/mm | IEC 60243–1 |
| Comparative tracking index | 600 | V | IEC 60112 |
| Comparative tracking index (PLC) | 0 | class | UL 746A |

| OTHER PROPERTIES | VALUE | | |
|---|---|---|---|
| Water absorption | 0.5 | % | Sim. to ISO 62 |
| Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| Density | 1310 | kg/m³ | ISO 1183 |

| PROCESSING RECOMMENDATIONS | VALUE |
|---|---|

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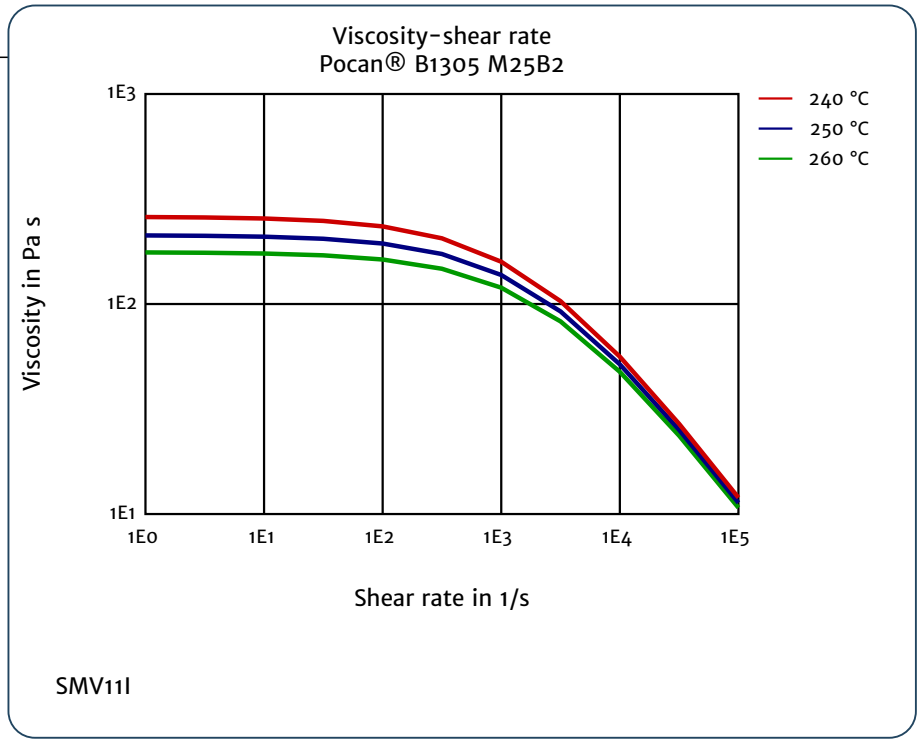
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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| Drying temperature circulating air dryer | 120 | °C | |
| Drying time circulating air dryer | 4–8 | h | |
| Residual moisture content | 0.00–0.02 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 250–270 | °C | |
| Mold temperature | 80–100 | °C | |

## Viscosity–shear rate




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