

Pocan[®] C1203

(PBT+PC)—I

Injection Molding, Unreinforced, Impact Modified, Excellent Surface Properties, Low Warpage

Print Date: 2025-10-04

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------------------|----------------|
| RHEOLOGICAL PROPERTIES | | VALUE | |
| Melt volume-flow rate | 25 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 5 | kg | ISO 1133 |
| Molding shrinkage (normal) | 0.8 | % | ISO 294-4 |
| Molding shrinkage (parallel) | 0.8 | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | VALUE | |
| Tensile modulus | 2500 | MPa | ISO 527-1/-2 |
| Yield stress | 55 | MPa | ISO 527-1/-2 |
| Yield strain | 4.2 | % | ISO 527-1/-2 |
| Flexural modulus | 2200 | MPa | ISO 178 |
| Flexural strength | 80 | MPa | ISO 178 |
| Flexural strain at flexural strength | 5.5 | % | ISO 178-A |
| Charpy impact strength (+23°C) | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 60 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 23 | kJ/m ² | ISO 179/1eA |
| Izod impact strength (+23°C) | N | kJ/m ² | 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) | 89 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 108 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.89 | E-4/°C | ISO 11359-1/-2 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|--------|----------------------|
| Coeff. of linear therm. expansion (normal) | 0.93 | E-4/°C | ISO 11359-1/-2 |
| | | | |
| ELECTRICAL PROPERTIES | VALUE | | |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Electric strength | 32 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 | V | IEC 60112 |
| | | | |
| OTHER PROPERTIES | VALUE | | |
| Density | 1200 | kg/m³ | ISO 1183 |
| | | | |
| 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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