

Pocan[®] DP7102 000000

PBT–MX32

32% Mineral Reinforced, Injection Molding, Laser Direct Structuring (LDS)

Print Date: 2024–04–12

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|--------------|-----------|----------------|
| RHEOLOGICAL PROPERTIES | | VALUE | |
| Melt volume–flow rate | 12 | cm³/10min | ISO 1133 |
| Temperature | 260 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage (normal) | 1.4 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 1.4 | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | VALUE | |
| Tensile modulus | 5800 | MPa | ISO 527–1/–2 |
| Stress at break | 50 | MPa | ISO 527–1/–2 |
| Strain at break | 2 | % | ISO 527–1/–2 |
| Flexural modulus | 6400 | MPa | ISO 178 |
| Flexural strength | 95 | MPa | ISO 178 |
| Flexural strain at flexural strength | 3 | % | ISO 178–A |
| Charpy impact strength (+23°C) | 35 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 35 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | | kJ/m² | ISO 179/1eA |
| Izod impact strength (+23°C) | 30 | kJ/m² | ISO 180/1U |
| Izod impact strength (–30°C) | 25 | 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) | 115 | °C | ISO 75–1/–2 |

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Property Data

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|--------|-----------------|
| Temp. of deflection under load (0.45 MPa) | 195 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.7 | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.9 | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | IEC 60695-11-10 |

| ELECTRICAL PROPERTIES | VALUE | | |
|-------------------------------|-------|-----|---------------|
| Relative permittivity (100Hz) | 3.7 | — | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 3.5 | — | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 32 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 149 | E-4 | IEC 62631-2-1 |

| OTHER PROPERTIES | VALUE | | |
|------------------|-------|-------|----------|
| Density | 1570 | kg/m³ | ISO 1183 |

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