

Pocan[®] DP7102

PBT-I-MX32

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

Print Date: 2024-09-17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|--------------|------------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate | 12 | cm ³ /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/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 35 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | <10 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | <10 | kJ/m ² | ISO 179/1eA |
| Izod impact strength (+23°C) | 30 | kJ/m ² | ISO 180/1U |
| Izod impact strength (-30°C) | 25 | 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) | 115 | °C | ISO 75-1/-2 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------|--------------------|
| 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/m ³ | 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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