Property Data

Envalior
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# Pocan® C5210

## (PET+PC)–I–MX15

*15% Mineral Reinforced, Injection Molding, Improved Impact, Excellent Surface Properties, Low Warpage*

Print Date: 2024–09–17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | **VALUE** | | |
| Melt volume–flow rate | 20 | cm³/10min | ISO 1133 |
| Temperature | 270 | °C | ISO 1133 |
| Load | 5 | kg | ISO 1133 |
| Molding shrinkage (normal) | 0.6 | % | ISO 294–4 |
| Molding shrinkage (parallel) | 0.6 | % | ISO 294–4 |
| **MECHANICAL PROPERTIES** | **VALUE** | | |
| Tensile modulus | 3500 | MPa | ISO 527–1/–2 |
| Stress at break | 45 | MPa | ISO 527–1/–2 |
| Strain at break | 15 | % | ISO 527–1/–2 |
| Flexural modulus | 3800 | MPa | ISO 178 |
| Flexural strength | 85 | MPa | ISO 178 |
| Flexural strain at flexural strength | 5 | % | ISO 178–A |
| Charpy impact strength (+23°C) | N | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | N | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 12 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 7 | kJ/m² | ISO 179/1eA |
| Izod impact strength (+23°C) | N | kJ/m² | ISO 180/1U |
| Izod impact strength (–30°C) | N | kJ/m² | ISO 180–1U |
| **THERMAL PROPERTIES** | **VALUE** | | |
| Melting temperature (10°C/min) | 250 | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 105 | °C | ISO 75–1/–2 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| Temp. of deflection under load (0.45 MPa) | 125 | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.5 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.8 | 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 |

| ELECTRICAL PROPERTIES | VALUE | | |
|---|---|---|---|
| Comparative tracking index | 225 | V | IEC 60112 |

| OTHER PROPERTIES | VALUE | | |
|---|---|---|---|
| Density | 1300 | 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) | 260–280 | °C | |
| Mold temperature | 80–100 | °C | |
| admissible residence time at Tmax | <10 | min | |