

Product Texts

Transparent weatherable PC copolymer for blowmolding/extrusion.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 2 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 3 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 2350 | MPa | ISO 527 |
| Yield stress | 63 | MPa | ISO 527 |
| Yield strain | 6 | % | ISO 527 |
| Stress at break | 63 | MPa | ISO 527 |
| Strain at break | 50 | % | ISO 527 |
| Flexural modulus | 2240 | MPa | ISO 178 |
| Charpy impact strength, +23°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C, 3mm | 75 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C, 3mm | 15 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 3mm | 70 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 3mm | 10 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 2400 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 62 | MPa | ASTM D 638 |
| Tensile Strength at Break | 64 | MPa | ASTM D 638 |
| Elongation at Yield | 7.5 | % | ASTM D 638 |
| Elongation at Break | 106 | % | ASTM D 638 |
| Flexural Modulus | 2400 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 848 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 141 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 125 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 143 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 145 | °C | ISO 306 |
| ASTM Data | | | |
| DTUL @ 264 psi | 126 | °C | ASTM D 648 |
| Vicat Temperature | 143 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption | 0.35 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1200 | kg/m ³ | ISO 1183 |
| Density | 1200 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| Pre-drying - Temperature | 115 - 120 | °C | - |

| Processing Recommendation Extrusion | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| Pre-drying - Temperature | 115 - 120 | °C | - |

| | | | |
|---------------------|------------------|----|---|
| Pre-drying - Time | 4 - 6 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 265 - 275 | °C | - |
| Mold temperature | 65 - 95 | °C | - |
| Zone 1 | 275 - 260 | °C | - |
| Zone 2 | 260 - 275 | °C | - |
| Zone 3 | 260 - 275 | °C | - |
| Zone 4 | 260 - 275 | °C | - |
| Zone 5 | 260 - 275 | °C | - |

Characteristics**Processing**

Blow Molding

Regional Availability

North America

Special Characteristics

Transparent