

Product Texts

Siloxane-PC copolymer

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 25 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Other Standards^[5] | | | |
| Molding shrinkage, parallel | 0.7 | % | Producer Method |
| Molding shrinkage, normal | 0.7 | % | Producer Method |

S: These properties are reported by the producer according standards that are different to our defaults.

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Yield stress | 60 | MPa | ISO 527 |
| Nominal strain at break | 110 | % | ISO 527 |
| Flexural modulus, 23°C | 2100 | MPa | ISO 178 |
| Flexural strength | 90 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 70 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 50 | kJ/m ² | ISO 179/1eA |
| ASTM Data | | | |
| Izod Impact notched, 1/8 in | 700 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 600 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 123 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 138 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 70 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Burning behav. at thickness h | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 0.5 | mm | - |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1180 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 5 - 8 | h | - |
| Melt temperature | 270 - 310 | °C | - |
| Mold temperature | 80 - 110 | °C | - |

Characteristics

Processing

Injection Molding

Features

Copolymer

Regional Availability

North America, Europe, Asia Pacific