

**Product Texts**

Siloxane-PC copolymer

**Processing/Physical Characteristics**

|                                      | Value | Unit                   | Test Standard   |
|--------------------------------------|-------|------------------------|-----------------|
| <b>ISO Data</b>                      |       |                        |                 |
| Melt volume-flow rate, MVR           | 12    | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                          | 300   | °C                     | -               |
| Load                                 | 1.2   | kg                     | -               |
| <b>Other Standards<sup>[5]</sup></b> |       |                        |                 |
| 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 |
|---------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                       |       |                   |               |
| Yield stress                          | 59    | MPa               | ISO 527       |
| Nominal strain at break               | 110   | %                 | ISO 527       |
| Flexural modulus, 23°C                | 2200  | MPa               | ISO 178       |
| Flexural strength                     | 90    | MPa               | ISO 178       |
| Charpy notched impact strength, +23°C | 80    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy notched impact strength, -30°C | 25    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <b>ASTM Data</b>                      |       |                   |               |
| Izod Impact notched, 1/8 in           | 800   | 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  |
|---|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Temp. of deflection under load, 1.80 MPa    | 123   | °C    | ISO 75-1/-2    |
| Coeff. of linear therm. expansion, parallel | 70    | E-6/K | ISO 11359-1/-2 |

**Optical properties**

|                        | Value              | Unit | Test Standard   |
|------------------------|--------------------|------|-----------------|
| <b>ISO Data</b>        |                    |      |                 |
| Luminous transmittance | 86 <sup>[1]</sup>  | %    | ISO 13468-1, -2 |
| <b>ASTM Data</b>       |                    |      |                 |
| Haze                   | 1.4 <sup>[1]</sup> | %    | ASTM D 1003     |
| Index of Refraction    | 1.58               | -    | ASTM D 542      |

1: 3 mm

**Other properties**

|         | Value | Unit              | Test Standard |
|---------|-------|-------------------|---------------|
| Density | 1180  | kg/m <sup>3</sup> | 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

**Special Characteristics**

Transparent

**Regional Availability**

North America, Europe, Asia Pacific