

Styron CALIBRE[®],ç IM 401-11 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBRE[®],ç IM 401-11 Impact Modified Polycarbonate resin is available in opaque formulations that offer benefits ranging from superior low temperature impact strength to easy process with improved impact strength in highly filled formulations Main

Characteristics:Impact modifiedSuperior low temperature toughnessApplications:Automotive interiorsAutomotive exteriorsSmall & large applicationsInformation provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-IM-401-11-Polycarbonate-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|-----------------------|
| Density | 1.18 g/cc | 0.0426 lb/in ³ | ISO 1183/B; ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ISO 294-4; ASTM D955 |
| Melt Flow | 11 g/10 min @Load 1.20 kg, Temperature 300 Â°C | 11 g/10 min @Load 2.65 lb, Temperature 572 Â°F | ISO 1133; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------------|--|--|
| Tensile Strength, Yield | 55.8 MPa | 8090 psi | 50 mm/min; ASTM D638 |
| | 56.0 MPa | 8120 psi | ISO 527-2/50 |
| Elongation at Break | 130 % | 130 % | 50 mm/min; ASTM D638; ISO 527-2/50 |
| Flexural Strength | 89.6 MPa | 13000 psi | Method I (3 point load), 2.0 mm/min; ASTM D790 |
| | 90.0 MPa | 13100 psi | 2.0 mm/min, 3 point; ISO 178 |
| Flexural Modulus | 2.27 GPa | 329 ksi | 2.0 mm/min, 3 point; ISO 178 |
| | 2.28 GPa | 331 ksi | Method I (3 point load), 2.0 mm/min; ASTM D790 |
| Izod Impact, Notched | 6.90 J/cm @Temperature 23.0 Â°C | 12.9 ft-lb/in @Temperature 73.4 Â°F | ASTM D256; ISO 180/4A |
| Tensile Impact Strength | 630 kJ/m ² | 300 ft-lb/in ² | ASTM D1822 |
| Dart Drop, Total Energy | 56.5 J | 41.7 ft-lb | 3.39 m/sec; ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------------|---------|---------|----------|
| Deflection Temperature at 1.8 MPa | 121 Â°C | 250 Â°F | |

| <small>(264 psi)</small> Thermal Properties | Metric | English | Unannealed; ASTM D648; ISO 75-2/B Comments |
|--|--------------------------|----------------------------|---|
| | 136 Å°C | 277 Å°F | Annealed; ASTM D648; ISO 75-2/B |
| Vicat Softening Point | 145 Å°C @Load 5.10 kg | 293 Å°F @Load 11.2 lb | Rate A (50Å°C/h); ASTM D1525; ISO 360/B50 |
| Flammability, UL94 | HB @Thickness 1.59 mm | HB @Thickness 0.0626 in | |
| | HB @Thickness 3.20 mm | HB @Thickness 0.126 in | |

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