

## Styron CALIBRE<sup>®</sup>,ç IM 401-18 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Overview: CALIBRE<sup>®</sup>,ç IM 401-18 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-401-18-Polycarbonate-Resin.php](http://www.lookpolymers.com/polymer_Styron-CALIBRE-IM-401-18-Polycarbonate-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	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	18 g/10 min @Load 1.20 kg, Temperature 300 Â°C	18 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ISO 1133; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.9 MPa	8400 psi	50 mm/min; ASTM D638
	58.0 MPa	8410 psi	ISO 527-2/50
Elongation at Break	110 %	110 %	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	6.40 J/cm @Temperature 23.0 Â°C	12.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D256; ISO 180/4A
Tensile Impact Strength	588 kJ/m <sup>2</sup>	280 ft-lb/in <sup>2</sup>	ASTM D1822
Dart Drop, Total Energy	50.8 J	37.5 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 Comments
	136 Å°C	277 Å°F	Annealed; ASTM D648
Vicat Softening Point	146 Å°C @Load 5.10 kg	295 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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