

Styron CALIBREâ„¢ 301-58 LT Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBREâ„¢ 301-58 LT is a high light transmission, high-flow polycarbonate resin for injection molding applications.Main Characteristics:High light transmissionHigh flow for injection moldingHigh purityApplications:LED opticsLight guidesInformation provided by Styron

Order this product through the following link:
http://www.lookpolymers.com/polymer_Styron-CALIBRE-301-58-LT-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183/B; ASTM D792
Water Absorption	0.20 %	0.20 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	58 g/10 min	58 g/10 min	ISO 1133
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ISO 527-2/50
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-2/50
Elongation at Break	60 %	60 %	ISO 527-2/50
Elongation at Yield	6.0 %	6.0 %	ISO 527-2/50
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2/50
Flexural Strength	100 MPa	14500 psi	2.0 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2.0 mm/min; ISO 178
Izod Impact, Notched (ISO)	58.0 kJ/m ²	27.6 ft-lb/in ²	ISO 180/4A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C	279 Â°F	Annealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	124 Â°C	255 Â°F	Unannealed; ISO 75-2/A
	134 Â°C	273 Â°F	Annealed; ISO 75-2/A
Vicat Softening Point	147 Â°C	297 Â°F	ISO 306/B50

Optical Properties	Metric	English	Comments
Refractive Index	1.583	1.583	ISO 489
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	>= 90 %	>= 90 %	ASTM D1003

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China