

Styron CALIBRE 2060-6 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBRE 2060-6 polycarbonate resin is used in medical applications involving steam or ethylene oxide sterilization through suitability for use in these applications is dependent upon autoclave cycle times and temperatures. CALIBRE 2060-6 provides exceptional clarity, heat resistance, impact strength, and processability, and has low contamination levels. The CALIBRE 2000 series of resins have been evaluated by certain biocompatibility tests based on ISO 10993-1 (Biological Evaluation of Medical Devices) and are suitable for use in approved medical applications. Applications: Medical applications Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-2060-6-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183/A; ASTM D792
Water Absorption	0.32 %	0.32 %	Equilibrium, 50% RH; ISO 62; ASTM D570
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage, Flow	0.15 %	0.15 %	ISO 62; ASTM D570
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Melt Flow	6.0 g/10 min	6.0 g/10 min	ISO 1133; ASTM D1238
	@Load 1.20 kg, Temperature 300 Å°C	@Load 2.65 lb, Temperature 572 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	73	73	ASTM D785
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	72.0 MPa	10400 psi	ISO 527-2/50
	72.4 MPa	10500 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ASTM D638; ISO 527-2/50
Elongation at Break	150 %	150 %	50 mm/min; ASTM D638; ISO 527-2/50
Tensile Modulus	2.41 GPa	350 ksi	50 mm/min; ASTM D638; ISO 527-2/50
Flexural Strength	96.0 MPa	13900 psi	2.0 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	96.8 MPa	14000 psi	Method I (3 point load), 2.0 mm/min; ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	Method I (3 point load), 2.0 mm/min; ASTM D790; ISO 178
Izod Impact, Notched	9.10 J/cm @Temperature 23.0 Â°C	17.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D256
Izod Impact, Notched (ISO)	88.0 kJ/mÂ² @Temperature 23.0 Â°C	41.9 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 180; ASTM D256A
Tensile Impact Strength	588 kJ/mÂ²	280 ft-lb/inÂ²	ASTM D1822
Dart Drop, Total Energy	90.4 J	66.7 ft-lb	3.39 m/sec; ASTM D3763
Abrasion	45	45	[%] Taber; ASTM D1004

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