

Styron CALIBRE[®],ç 1080 DVD Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

CALIBRE[®],ç 1080 DVD resin has been developed to meet the high demands of the modern Optical Media Industry and is suitable for standard CD molding (audio or ROM) as well as for recordable optical storage discs (CD-R, CD-RW, DVD, MO and PD). Information provided by Dow This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-1080-DVD-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Melt Flow	80 g/10 min	80 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	58	58	ASTM D785
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Ultimate	48.3 MPa	7000 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	50 mm/min; ASTM D638
Flexural Strength	100 MPa	14500 psi	3-points, 2 mm/min; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	3-points, 2 mm/min; ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C	278 Â°F	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 Â°C	256 Â°F	unannealed; ASTM D648

Optical Properties	Metric	English	Comments
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Refractive Index Optical Properties	1.583 Metric	1.583 English	ASTM D542 Comments
Transmission, Visible	91 %	91 %	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