

Diamond Polymers SBS 2160 Clear Styrene Butadiene Copolymer

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene-Butadiene Copolymer, SBC

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-SBS-2160-Clear-Styrene-Butadiene-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	Flow Direction; ASTM D955
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 200 °C	15 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	ASTM D2240
Tensile Strength, Yield	37.2 MPa	5400 psi	chs 2.0 in/min; ASTM D638
Flexural Strength	50.3 MPa	7300 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.515 GPa	364.8 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.198 J/cm @Thickness 3.17 mm	0.371 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.3 °C	164 °F	0.125";; ASTM D648
Vicat Softening Point	97.5 °C @Load 1.00 kg, Thickness 3.17 mm	208 °F @Load 2.20 lb, Thickness 0.125 in	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	<= 4.0 %	<= 4.0 %	
Yellow Index	<= 8.4 %	<= 8.4 %	BAM 1015
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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