

Diamond Polymers SBS 1001 Styrene Butadiene Block 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-1001-Styrene-Butadiene-Block-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Water Absorption	0.070 % @Temperature 23.0 °C	0.070 % @Temperature 73.4 °F	Saturation; ASTM D570
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 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	67 - 77	67 - 77	ASTM D2240
Tensile Strength, Yield	30.0 MPa	4350 psi	chs 2.0 in/min; ASTM D638
Flexural Strength	33.0 MPa	4790 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	1.502 GPa	217.8 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	ISO-180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.0 °C	153 °F	ASTM D648
Vicat Softening Point	90.0 °C @Load 1.00 kg, Thickness 3.17 mm	194 °F @Load 2.20 lb, Thickness 0.125 in	ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	ASTM D1003

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