

PolyOne Synprene® RT-5180 Styrene Butadiene Block Copolymer (SBC) (discontinued **)

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

Material Notes:

Synprene™ thermoplastic elastomers (TPEs) are compounds based on styrenic block copolymer (SBC) technology, and can be formulated to deliver extremely low hardness values not found in other elastomers. These materials are ideal for applications requiring flexibility over a wide temperature range, excellent colorability, broad processing capability and durability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Synprene-RT-5180-Styrene-Butadiene-Block-Copolymer-SBC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength at Break	11.4 MPa	1650 psi	510 mm/min; ASTM D412A
Tensile Strength, Yield	5.24 MPa @Strain 300 %	760 psi @Strain 300 %	510 mm/min; ASTM D412A
Elongation at Break	730 %	730 %	510 mm/min; ASTM D412A
Resilience	39	39	Bayshore Resilience; ASTM D2632
Tear Strength	42.9 kN/m	245 pli	Die C, 510 mm/min; ASTM D624
Compression Set	25 % @Temperature 23.0 °C, Time 79200 sec	25 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-52.0 °C	-61.6 °F	ASTM D746
Flammability, UL94	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0626 in	NC; UL 94
Oxygen Index	27 % @Thickness 1.57 mm	27 % @Thickness 0.0618 in	ASTM D2863

Descriptive Properties	Value	Comments
Appearance	Natural Color	

Descriptive Properties	Value Retardant	Comments
	General Purpose	
Forms	Pellets	
Generic Name	Styrene Butadiene Block Copolymer (SBC)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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