

PolyOne Synprene™ RT-5180 RoHS Natural Styrene Butadiene Block Copolymer (SBC)

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. Information provided by PolyOne

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	10 sec; ASTM D2240
Tensile Strength at Break	10.7 MPa	1550 psi	510 mm/min; ASTM D412A
Elongation at Break	>= 600 %	>= 600 %	510 mm/min; ASTM D412A
Resilience	39	39	Bayshore Resilience, %; ASTM D2632
Tear Strength	40.3 kN/m	230 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	
Features	Flame Retardant	
Forms	Pellets	

Descriptive Properties Generic Material	Value SBC	Comments
Generic Name	Styrene Butadiene Block Copolymer (SBC)	
Processing Method	Extrusion Injection Molding	
Regional Availability	Africa & Middle East Asia Pacific Europe North America South America	
Uses	Construction Applications Consumer Applications Industrial Applications Wire & Cable Applications	

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