

PolyOne Synprene™ RT-5155 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-5155-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	55	55	ASTM D2240
Tensile Strength at Break	4.07 MPa	590 psi	510 mm/min; ASTM D412A
Tensile Stress	2.45 MPa @Strain 300 %	355 psi @Strain 300 %	510 mm/min; ASTM D412A
Elongation at Break	580 %	580 %	510 mm/min; ASTM D412A
Resilience	43	43	Bayshore Resilience, %; ASTM D2632
Tear Strength	22.1 kN/m	126 pli	Die C, 510 mm/min; ASTM D624
Compression Set	13 % @Temperature 23.0 °C, Time 79200 sec	13 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-56.0 °C	-68.8 °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 Material	SBC	
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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