

PolyOne Synprene® RT-3870M 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. A thermoplastic elastomer compound formulated for use in food contact applications. The physical properties listed above are typical values obtained on laboratory prepared samples and tested in accordance with accepted test methods. All ingredients used in the formulation of this compound are listed in the United States FDA Code of Federal Regulations, Title 21 for use in the packaging of food. The listings cover many uses and restrictions may apply depending on the application.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Synprene-RT-3870M-Styrene-Butadiene-Block-Copolymer-SBC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.898 g/cc	0.898 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	ASTM D2240
Tensile Strength at Break	6.79 MPa	985 psi	510 mm/min; ASTM D412A
Tensile Strength, Yield	4.83 MPa @Strain 300 %	701 psi @Strain 300 %	510 mm/min; ASTM D412A
Elongation at Break	550 %	550 %	510 mm/min; ASTM D412A
Resilience	43	43	Bayshore Resilience; ASTM D2632
Tear Strength	38.5 kN/m	220 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	-64.0 °C	-83.2 °F	ASTM D746

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
Appearance	Natural Color	

Descriptive Properties Features	Value Food Contact Acceptable	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	Consumer Applications	
	General Purpose	

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