

## PolyOne Synprene® RT-3820M Thermoplastic Elastomer - SBC (discontinued \*\*)

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE

### Material Notes:

Description/Features:High Performance Thermoplastic ElastomerTransparentApplications:FDA (Food Contact)Multi-PurposeMarket:Consumer GoodsProcessing Method:Injection MoldingDisclaimer: 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. PLEASE CONTACT US TO REVIEW THE SUITABILITY OF SPECIFIC PRODUCTS IN SPECIFIC APPLICATIONS. This statement is only an overview of the FDA listings for this product. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT THE COMPOUND IS SUITABLE FOR ITS INTENDED APPLICATIONS.Information provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Synprene-RT-3820M-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Synprene-RT-3820M-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	20	20	Instant; ASTM D2240
Tensile Strength, Yield	3.17 MPa	460 psi	Method A (Dumbbell & Section), 20 in/min, Break; ASTM D412
	0.621 MPa @Strain 300 %	90.0 psi @Strain 300 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Elongation at Break	760 %	760 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Rebound	63 %	63 %	Bayshore; ASTM D2632
Tear Strength	8.77 kN/m	50.0 pli	Die C (graves), 20 in/min; ASTM D624
Compression Set	27 %	27 %	Method B, 73°F(23°C), 22 hrs; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-65.0 °C	-85.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

## **Contact Songhan Plastic Technology Co.,Ltd.**

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