

## PolyOne Synprene® IT 38-113 Thermoplastic Elastomer - SBC (discontinued \*\*)

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

### Material Notes:

Description/Features:High Performance Thermoplastic ElastomerNaturalUV StabilizedApplications:Multi-PurposeFDA (Food Contact)Market:Consumer GoodsProcessing Method:Injection MoldingPolyOne First ChoiceDisclaimer: 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-IT-38-113-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Synprene-IT-38-113-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	40	40	Instant; ASTM D2240
Tensile Strength, Yield	4.83 MPa	700 psi	Method A (Dumbbell & Section), 20 in/min, Break; ASTM D412
	2.31 MPa @Strain 300 %	335 psi @Strain 300 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Elongation at Break	700 %	700 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Rebound	57 %	57 %	Bayshore; ASTM D2632
Tear Strength	20.2 kN/m	115 pli	Die C (graves), 20 in/min; ASTM D624
Compression Set	20 %	20 %	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

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