

**PolyOne Synprene® IT 38-082 Thermoplastic Elastomer - SBC (discontinued \*\*)**

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

**Material Notes:**

Description/Features:High Performance Thermoplastic ElastomerOver-Molding GradeTransparentMarket:Consumer GoodsIndustrialProcessing Method:Injection MoldingPolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Synprene-IT-38-082-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Synprene-IT-38-082-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D792
Linear Mold Shrinkage	0.0269 cm/cm	0.0269 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	41	41	Instant; ASTM D2240
Tensile Strength, Yield	6.89 MPa	1000 psi	Method A (Dumbbell & Section), 20 in/min, Break; ASTM D412
	2.55 MPa @Strain 300 %	370 psi @Strain 300 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Elongation at Break	800 %	800 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Tear Strength	29.8 kN/m	170 pli	Die C (graves), 20 in/min; ASTM D624
Compression Set	22 %	22 %	Method B, 73°F(23°C), 22 hrs; ASTM D395

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

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