

PolyOne Synprene® RT-3840MS Thermoplastic Elastomer - SBC (discontinued **)

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

Material Notes:

Description/Features: High Performance Thermoplastic Elastomer Transparent UV Stabilized Applications: Multi-Purpose Market: Consumer Goods Processing Method: Injection Molding PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Synprene-RT-3840MS-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D792
	0.900 g/cc	0.900 g/cc	ASTM D792
Linear Mold Shrinkage	0.0135 cm/cm	0.0135 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	Instant; ASTM D2240
	40	40	Instant; ASTM D2240
Tensile Strength, Yield	4.83 MPa	700 psi	Method A (Dumbbell & Section), 20 in/min; ASTM D412
	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
	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
	700 %	700 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Rebound	57 %	57 %	Bayshore; ASTM D2632
	57 %	57 %	Bayshore; ASTM D2632
Tear Strength	20.2 kN/m	115 pli	Die C (graves), 20 in/min; ASTM D624
	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

Mechanical Properties	Metric	English	Comments
			13°F(23°C), 22 hrs; ASTM D3355

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

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

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