

PolyOne Synprene® RT-5165 Thermoplastic Elastomer - SBC (discontinued **)

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

Material Notes:

Description/Features:High Performance Thermoplastic ElastomerNaturalIgnition ResistantApplications:Multi-PurposeMarket:Building and ConstructionConsumer GoodsIndustrialProcessing Method:Injection MoldingPolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Synprene-RT-5165-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	Instant; ASTM D2240
Tensile Strength, Yield	6.14 MPa	890 psi	Method A (Dumbbell & Section), 20 in/min, Break; ASTM D412
	3.45 MPa @Strain 300 %	500 psi @Strain 300 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Elongation at Break	600 %	600 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Rebound	41 %	41 %	Bayshore; ASTM D2632
Tear Strength	29.8 kN/m	170 pli	Die C (graves), 20 in/min; ASTM D624
Compression Set	19 %	19 %	Method B, 73°F(23°C), 22 hrs; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-54.0 °C	-65.2 °F	ASTM D746
Flammability, UL94	V-0	V-0	Natural, 0.062 in thick; UL 94
Oxygen Index	27 %	27 %	0.062 in. bars; ASTM D2863

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