

**PolyOne Synprene® RT-3830E Thermoplastic Elastomer - SBC (discontinued \*\*)**

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

**Material Notes:**

Synprene™ thermoplastic elastomers (TPEs) are compounds based on styrenic block copolymer (SBC) technology, and can be formulated to deliver extremely low hardness values not found in other elastomers. These materials are ideal for applications requiring flexibility over a wide temperature range, excellent colorability, broad processing capability and durability. Description/Features: High Performance Thermoplastic Elastomer Natural Applications: Multi-Purpose FDA (Food contact) Processing Method: Extrusion Information provided by PolyOne Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Synprene-RT-3830E-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Synprene-RT-3830E-Thermoplastic-Elastomer-SBC-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	30	30	10 Sec; ASTM D2240
	33	33	Instant; ASTM D2240
Tensile Strength, Yield	4.83 MPa	700 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	660 %	660 %	Method A (Dumbbell & Section), 20 in/min; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	Die C (graves), 20 in/min; ASTM D624

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