

# Synprene™ RT-5180 RoHS Natural

Styrene Butadiene Block Copolymer

PolyOne Corporation

Message:

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.

General Information	
Features	Flame Retardant
Uses	Construction Applications
	Consumer Applications
	Industrial Applications
	Wire & Cable Applications
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Break)	10.7	MPa	ASTM D412A
Tensile Elongation <sup>2</sup> (Break)	> 600	%	ASTM D412A
Tear Strength <sup>3</sup>	40.3	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	25	%	ASTM D395B
Bayshore Resilience	39	%	ASTM D2632
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-52.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	42	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, NC)	V-0		UL 94
Oxygen Index (1.57 mm)	27	%	ASTM D2863

NOTE	
1.	510 mm/min
2.	510 mm/min
3.	Die C, 510 mm/min

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