

Synprene™ RT-5155 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		
	General Purpose		
Uses	Construction Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain)	2.45	MPa	ASTM D412A
Tensile Strength ² (Break)	4.07	MPa	ASTM D412A
Tensile Elongation ³ (Break)	580	%	ASTM D412A
Tear Strength ⁴	22.1	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	13	%	ASTM D395B
Bayshore Resilience	43	%	ASTM D2632
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-56.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, NC)	V-0		UL 94
Oxygen Index (1.57 mm)	27	%	ASTM D2863
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	Die C, 510 mm/min		

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