Synprene™ RT-5180UV 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 Good UV Resistance
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/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	79		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break)	18.6	MPa	ASTM D412A
Tensile Elongation [2] (Break)	> 600	%	ASTM D412A
Tear Strength [3]	35.0	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

Recommended distributors for this material

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