

Santoprene™ 291-75B150

Thermoplastic Vulcanizate

Product Description

A colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to bond to PC, ABS, PC/ABS, ASA and PMMA for applications where hard/soft combinations are required. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is recyclable within the manufacturing stream.

Key Features

- Designed for excellent adhesion to PC, ABS, PC/ABS, ASA and PMMA (cold insert or 2K [two-shot] molding).
- Broad processing window in injection molding.
- Recommended for applications requiring superior part surface appearance.
- UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component.

General

Applications	<ul style="list-style-type: none"> ▪ Automotive - Plugs, Bumpers, Grommets, Clips ▪ Consumer - Floor Care ▪ Consumer - Kitchen Tools 	<ul style="list-style-type: none"> ▪ Consumer - Power Tools ▪ Consumer - Writing Instruments ▪ Consumer Applications 	<ul style="list-style-type: none"> ▪ Seals and Gaskets ▪ Soft Touch Grips
Uses	<ul style="list-style-type: none"> ▪ Appliance Components ▪ Appliances ▪ Automotive Applications ▪ Automotive Under the Hood ▪ Bonding ▪ Cell Phones 	<ul style="list-style-type: none"> ▪ Consumer Applications ▪ Eyeglass Frames ▪ Flexible Grips ▪ Kitchenware ▪ Living Hinges ▪ Seals 	<ul style="list-style-type: none"> ▪ Sporting Goods ▪ Strain Reliefs ▪ Tie-Layer ▪ White Goods & Small Appliances
Agency Ratings	<ul style="list-style-type: none"> ▪ UL QMFZ2 	<ul style="list-style-type: none"> ▪ UL QMFZ8 	
RoHS Compliance	<ul style="list-style-type: none"> ▪ RoHS Compliant 		
UL File Number	<ul style="list-style-type: none"> ▪ E80017 		
Color	<ul style="list-style-type: none"> ▪ Natural Color 		
Form(s)	<ul style="list-style-type: none"> ▪ Pellets 		
Processing Method	<ul style="list-style-type: none"> ▪ Coextrusion 	<ul style="list-style-type: none"> ▪ Injection Molding 	<ul style="list-style-type: none"> ▪ Multi Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	1.10	1.10	ASTM D792
Density	1.10 g/cm ³	1.10 g/cm ³	ISO 1183

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness			ISO 868
Shore A, 15 sec, 73°F (23°C)	74	74	



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Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	464 psi	3.20 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	464 psi	3.20 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	2230 psi	15.4 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	2230 psi	15.4 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	640 %	640 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	640 %	640 %	ISO 37
Compression Set 73°F (23°C), 22 hr, Type 1 158°F (70°C), 22 hr, Type 1	37 % 68 %	37 % 68 %	ASTM D395B
Compression Set 73°F (23°C), 22 hr, Type A 158°F (70°C), 22 hr, Type A	37 % 68 %	37 % 68 %	ISO 815

Injection Notes

Santoprene TPV is incompatible with acetal and PVC. Please see Quick Processing Reference for 291-XXB150 for further information.

Aging	Typical Value (English)	Typical Value (SI)	Test Based On
Change in Tensile Strength in Air 212°F (100°C), 168 hr	-8.0 %	-8.0 %	ASTM D573
Change in Tensile Strength in Air 212°F (100°C), 168 hr	-8.0 %	-8.0 %	ISO 188
Change in Ultimate Elongation in Air 212°F (100°C), 168 hr	-11 %	-11 %	ASTM D573
Change in Tensile Strain at Break in Air 212°F (100°C), 168 hr	-11 %	-11 %	ISO 188

Flammability	Typical Value (English)	Typical Value (SI)	Test Based On
Flame Rating 0.06 in (1.6 mm) 0.08 in (2.1 mm)	HB HB	HB HB	UL 94

