

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				
Availability ¹	Africa & Middle EastAsia Pacific	EuropeLatin America	North	America
Applications	 Automotive - Plugs, Bumpers, Grommets, Clips Consumer - Floor Care Consumer - Kitchen Tools 	Consumer - Power ToolsConsumer - Writing InstrumentsConsumer Applications		and Gaskets ouch Grips
Uses	 Appliance Components Appliances Automotive Applications Automotive Under the Hood Bonding Cell Phones 	Consumer ApplicationsEyeglass FramesFlexible GripsKitchenwareLiving HingesSeals	StrainTie-La	yer Goods & Small
Agency Ratings	■ UL QMFZ2	• UL QMFZ8		
RoHS Compliance	 RoHS Compliant 			
UL File Number	• E80017			
Color	 Natural Color 			
Form(s)	Pellets			
Processing Method	 Coextrusion 	Injection Molding Multi Injection Moldi		njection Molding
Revision Date	• 06/20/2014			
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/cm³	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
Tear Strength - Across Flow (73°F (23°C), Die C)	263	lbf/in	46.0	kN/m	ASTM D624
Tear Strength - Across Flow					ISO 34-1
73°F (23°C), Method Bb, Angle (Nicked)	260	lbf/in	46	kN/m	
Compression Set					ASTM D395B
73°F (23°C), 22 hr, Type 1	37	%	37	%	
158°F (70°С), 22 hг, Туре 1	68	%	68	%	
Compression Set					ISO 815
73°F (23°C), 22 hr, Type A	37	%	37	%	
158°F (70°С), 22 hг, Туре А	68	%	68	%	

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					ASTM D573
212°F (100°C), 168 hr	-8.0	%	-8.0	%	
Change in Tensile Strength in Air					ISO 188
212°F (100°C), 168 hr	-8.0	%	-8.0	%	
Change in Ultimate Elongation in Air					ASTM D573
212°F (100°C), 168 hr	-11	%	-11	%	
Change in Tensile Strain at Break in Air					ISO 188
212°F (100°C), 168 hr	-11	%	-11	%	

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

Additional Information

Where applicable, test results based on fan gated, injection molded plaques.

 $Tensile\ strength,\ elongation\ and\ tensile\ stress\ are\ measured\ across\ the\ flow\ direction\ -\ ISO\ type\ 1,\ ASTM\ die\ C.$

Compression set at 25% deflection.

All products purchased directly from an ExxonMobil affiliate in Europe are REACH compliant. For products not imported into Europe by ExxonMobil, customers should assess their legal responsibilities under REACH.

Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

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Processing Statement

Desiccant drying for 3 hours at 80°C (180°F) is recommended. Because of its inherent nature to bond, this material may, on occasion, agglomerate from shipping and storage. See Quick Processing Reference on 291-XXB150 and Tips from Technology - Guidelines for Storage and Handling of Santoprene TPV Bonding Grades.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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