ExxonMobil

Santoprene™ 291-75B150

Thermoplastic Vulcanizate

Product Description

Santoprene™ 291-75B150 is 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.

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.
- Designed for soft touch applications.
- UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Applications	▪ Automotive - Plugs, Bumpers, Grommets and Gap Filler ▪ Consumer - Floor Care ▪ Consumer - Kitchen Tools ▪ Consumer - Power Tools ▪ Consumer - Writing Instruments ▪ Consumer Applications ▪ Seals ▪ Soft Touch Grips		
Uses	▪ Appliance Components ▪ Appliances ▪ Automotive Applications ▪ Automotive Bumper ▪ Automotive Interior Parts ▪ Bonding	▪ Cell Phones ▪ Consumer Applications ▪ Flexible Grips ▪ Grommets ▪ Living Hinges ▪ Plugs	▪ Seals ▪ Sporting Goods ▪ Strain Reliefs ▪ Tie-Layer ▪ White Goods & Small Appliances
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 Molding
Revision Date	▪ 01/28/2021		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density	1.09	g/cm³	1.09	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)	78		78		

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break					ExxonMobil Method
73°F (23°C), Across Flow	1700	psi	12	MPa	
Tensile Stress at 100%					ExxonMobil Method
73°F (23°C), Across Flow	590	psi	4.0	MPa	
Elongation at Break					ExxonMobil Method
73°F (23°C), Across Flow	624	%	624	%	

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Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Compression Set			ASTM D395B
73°F (23°C), 22 hr, Type 1	30 %	30 %	
158°F (70°C), 22 hr, Type 1	68 %	68 %	
Compression Set			ISO 815
73°F (23°C), 22 hr, Type A	38 %	38 %	
158°F (70°C), 22 hr, Type A	58 %	58 %	

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			ExxonMobil Method
212°F (100°C), 168 hr	-9.0 %	-9.0 %	
Change in Ultimate Elongation in Air			ExxonMobil Method
212°F (100°C), 168 hr	6.0 %	6.0 %	
Change in Tensile Strain at Break in Air			ISO 188
212°F (100°C), 168 hr	-11 %	-11 %	

Additional Information

Where applicable, test results based on fan gated, 2.0 mm injection molded plaques. Tensile strength, elongation and tensile stress are measured across the flow direction. Test results are generated by ExxonMobil test methods that may not fully conform to the ASTM and/or ISO methods. Test methods are available upon request. 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 90°C (194°F) is recommended. Santoprene 291-XXB150 grade has processing window from 170°C to 190°C. Please contact ExxonMobil for guidelines on Handling and storage guidelines.

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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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