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Santoprene™ 291–60B150 Thermoplastic Vulcanizate

Product Description A colorable, specialty thermoplastic of thermoplastic elastomer (TPE) family bond to PC, ABS, PC/ABS, ASA and hard/soft combinations are required. shear-dependent and can be process thermoplastics equipment for injection	vulcanizate (TPV) in the v. It is especially formulated to PMMA for applications where This grade of Santoprene TPV is sed on conventional	 Pesigned for excellent adhesio (cold insert or 2K [two-shot] m Broad processing window in in Recommended for applications appearance. Designed for soft touch applications 	olding). jection moldin s requiring sup	g.
General				
Availability ¹	 Africa & Middle East Asia Pacific	EuropeLatin America	 North 	America
Applications	 Automotive - Plugs, Bumpe Consumer - Floor Care Consumer - Kitchen Tools Consumer - Power Tools Consumer - Writing Instrum Consumer Applications Seals Soft Touch Grips 			
Uses	 Appliance Components Appliances Automotive Applications Automotive Bumper Automotive Interior Parts Bonding Cell Phones 	 Consumer Applications Eyeglass Frames Flexible Grips Grommets Kitchenware Living Hinges Plugs 	 Seals Sporting Goods Strain Reliefs Tie-Layer White Goods & Small Appliances 	
RoHS Compliance	 RoHS Compliant 	5		
Automotive Specifications	• GM GMW15702-250012			
Color	 Natural Color 			
Form(s)	 Pellets 			
Processing Method	 Coextrusion 	 Injection Molding 	 Multi I 	njection Molding
Revision Date	• 06/20/2014			
hysical	Typical Value (Engli	sh) Typical Value	(SI)	Test Based On
Density / Specific Gravity	1.06	1.06		ASTM D792
Density	1.06 g/cm ²	3 1.06	g/cm³	ISO 1183
lardness Shore Hardness Shore A, 15 sec, 73°F (23°C)	Typical Value (Engli	sh) Typical Value	(SI)	Test Based On ISO 868

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lastomers	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	305	psi	2.10	MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	305	psi	2.10	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1160	psi	8.00	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1160	psi	8.00	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	540	%	540	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	540	%	540	%	ISO 37
Compression Set					ASTM D395B
73°F (23°C), 22 hr, Type 1	34	%	34	%	
158°F (70°C), 22 hr, Type 1	62	%	62	%	
Compression Set					ISO 815
73°F (23°C), 22 hr, Type A	34	%	34	%	
158°F (70°C), 22 hr, Type A	62	%	62	%	

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	0.0	%	0.0	%	
Change in Tensile Strength in Air					ISO 188
212°F (100°C), 168 hr	0.0	%	0.0	%	
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	%	
Change in Durometer Hardness in Air					ASTM D573
Shore A, 212°F (100°C), 672 hr	-2.0		-2.0		
Change in Shore Hardness in Air					ISO 188
Shore A, 212°F (100°C), 672 hr	-2.0		-2.0		
Change in Mass in Air					ASTM D573
212°F (100°C), 168 hr	-1.1	%	-1.1	%	
Change in Mass in Air					ISO 188
212°F (100°C), 168 hr	-1.1	%	-1.1	%	
Change in Volume in Air					ASTM D573
212°F (100°C), 168 hr	-1.2	%	-1.2	%	
Change in Volume in Air					ISO 188
212°F (100°C), 168 hr	-1.2	%	-1.2	%	

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. 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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