

ExxonMobil Santoprene® 291-75B150 Thermoplastic Vulcanizate

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

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/oft 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 polyolefin based and completely recyclable.**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, EU and China RoHS compliant.**Applications:**Automotive-Plugs, Bumpers, Grommets, ClipsConsumer-Floor Care, Kitchen Tools, Power Tools, Writing InstrumentsConsumer ApplicationsSeals and GasketsSoft Touch Grips**Uses:**Appliance ComponentsAppliancesAutomotive ApplicationsAutomotive Under the HoodBondingCell PhonesConsumer ApplicationsEyeglass FramesFlexible GripsKitchenwareLiving HingesSealsSporting GoodsStrain ReliefsTie-LayerWhite Goods & Small AppliancesProcessing Method: Coextrusion, Injection Molding and Multi Injection Molding Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South AmericaInformation provided by ExxonMobil Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-291-75B150-Thermoplastic-Vulcanizate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792 and ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	2 mm; ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	11.7 MPa	1700 psi	Across Flow; ASTM D412 and ISO 37
Tensile Stress	3.20 MPa	464 psi	Across Flow; ASTM D412 and ISO 37
	@Strain 100 %	@Strain 100 %	
Elongation at Break	570 %	570 %	Across Flow; ASTM D412 and ISO 37
Tear Strength	46.0 kN/m	262 pli	Across Flow, Die C; ASTM D624
	46.0 kN/m	262 pli	Across Flow, Method Bb, Angle (Nicked); ISO 34-1
Compression Set	37 %	37 %	ASTM D395B Type 1 and ISO 188 Type A
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	68 %	68 %	ASTM D395B Type 1 and ISO 188 Type A
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	UL File Number - E80017
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 2.10 mm	@Thickness 0.0827 in	

Descriptive Properties	Value	Comments
Change in Tensile Strength in Air	-8.0%	ASTM D573, 100°C, 168 hr
Change in Ultimate Elongation in Air	-11%	ASTM D573, 100°C, 168 hr

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