

Santoprene™ 291-60B150

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.

General						
Applications	 Automotive - Plugs, Bun Grommets, Clips Consumer - Floor Care Consumer - Kitchen Too 	• Cons	Consumer - Power ToolsConsumer - Writing InstrumentsConsumer Applications		Seals and GasketsSoft Touch Grips	
Uses			ble Grips nenware g Hinges	Sporting GoodsStrain ReliefsTie-LayerWhite Goods & Small Appliances		
RoHS Compliance	 RoHS Compliant 					
Automotive Specifications	• GM GMW15702-25001	2				
Color	 Natural Color 					
Form(s)	Pellets					
Processing Method	 Coextrusion 	 Inject 	tion Molding	 Multi Injection Molding 		
Physical	Typical Value (Er	nglish)	Typical Value	(SI)	Test Based On	
Density / Specific Gravity	1.06		1.06		ASTM D792	
Density	1.06 g/	cm ³	1.06	g/cm³	ISO 1183	
Hardness	Typical Value (Er	nglish)	Typical Value	(SI)	Test Based On	
Shore Hardness Shore A, 15 sec, 73°F (23°C)	65		65		ISO 868	
Elastomers	Typical Value (Er	nglish)	Typical Value	(SI)	Test Based On	
Tensile Stress at 100% - Across Flow (73°F (23°C))	305 ps	i	2.10	MPa	ASTM D412	
Tensile Stress at 100% - Across Flow (73°F (23°C))	305 ps	i	2.10	MPa	ISO 37	
Tensile Strength at Break - Across Flow (73°F (23°C))	1160 ps	i	8.00	MPa	ASTM D412	
Tensile Stress at Break - Across Flow (73°F (23°C))	1160 ps	i	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 73°F (23°C), 22 hr, Type 1 158°F (70°C), 22 hr, Type 1	34 % 62 %		34 62		ASTM D395B	
Compression Set 73°F (23°C), 22 hr, Type A	34 %		34		ISO 815	
158°F (70°C), 22 hr, Type A	62 %		62	%		







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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°С), 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	%	



