

SANTOPRENE™ 291-60B150 - TPV

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.

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.

Characteristics

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 - bumpers, Automotive applications, Automotive interior, Bonding, Cell phones, Consumer applications, Eyeglass frames, Flexible grips, Kitchenware, Living hinges, Seals, Sporting goods, Strain reliefs, Tie-layer, White goods & small appliances
Color	Natural color
Delivery Form	Pellets
Processing	Coextrusion, Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	66.2	lb/ft ³	ASTM D792
Density	66.2	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	65	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	305	psi	ASTM D412
Tensile stress at 100%, perpendicular	305	psi	ISO 37
Tensile strength at break elast, perpendicular	1160	psi	ASTM D412
Tensile stress at break, perpendicular	1160	psi	ISO 37
Elongation at break elast, perpendicular	540	%	ASTM D412
Tensile strain at break, perpendicular	540	%	ISO 37
Compression set, 23 °C, 22h, Type 1, Method B	34	%	ASTM D395
Compression set, 23 °C, 22h, Type A	34	%	ISO 815
Compression set, 70 °C, 22h, Type 1, Method B	62	%	ASTM D395
Compression set, 70 °C, 22h, Type A	62	%	ISO 815

Aging	Value	Unit	Test Standard
Change in Mass in Air @ 100 C, 168 h	-1.1	%	ASTM D573
Change in Mass in Air @ 100 C, 168 h	-1.1	%	ISO 188
Change in Volume in Air @ 100 C, 168 h	-1.2	%	ASTM D573
Change in Volume in Air @ 100 C, 168 h	-1.2	%	ISO 188
Change in Tensile Strength in Air @ 100 C, 168 h	0	%	ASTM D573
Change in Tensile Strength in Air @ 100 C, 168 h	0	%	ISO 188
Change in Ultimate Elongation in Air @ 100 C, 168 h	-11	%	ASTM D573
Change in Tensile Strain at Break in Air @ 100 C, 168 h	-11	%	ISO 188

SANTOPRENE™ 291-60B150 - TPV

Change in Durometer Hardness in Air @ 100 C, 672 h, Shore A	-2	-	ASTM D573
Change in Shore Hardness in Air @ 100 C, 672 h, Shore A	-2	-	ISO 188

Other text information

Processing Notes

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. Santoprene® TPV is incompatible with acetal and PVC.