

Santoprene™ 8201-80HT

Thermoplastic Vulcanizate

Product Description	Key Features
A soft, colorable, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material offers enhanced tensile, tear and abrasion properties along with improved processability and finished part appearance. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion, blow molding, thermoforming or vacuum forming. It is polyolefin based and completely recyclable. Pellets, as received, are oily to the touch.	<ul style="list-style-type: none"> Designed for applications requiring superior abrasion resistance. UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. EU and China RoHS compliant.

General			
Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America South America
Applications	<ul style="list-style-type: none"> Tubing 		
Uses	<ul style="list-style-type: none"> Hose 	<ul style="list-style-type: none"> Tubing 	
Agency Ratings	<ul style="list-style-type: none"> EU Annex XVII of Regulation (EC) No 1907/2006 	<ul style="list-style-type: none"> UL QMFZ2 	<ul style="list-style-type: none"> UL QMFZ8
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant 		
UL File Number	<ul style="list-style-type: none"> E80017 		
Color	<ul style="list-style-type: none"> Natural Color 		
Form(s)	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Blow Molding Coextrusion Extrusion Extrusion Blow Molding 	<ul style="list-style-type: none"> Injection Blow Molding Injection Molding Multi Injection Molding Profile Extrusion 	<ul style="list-style-type: none"> Sheet Extrusion Thermoforming Vacuum Forming
Revision Date	<ul style="list-style-type: none"> 02/06/2012 		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Specific Gravity	0.950	0.950	ASTM D792
Density	0.950 g/cm ³	0.950 g/cm ³	ISO 1183

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness			ISO 868
Shore A, 15 sec, 73°F (23°C), 0.0787 in (2.00 mm)	81	81	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	508 psi	3.50 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	508 psi	3.50 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1730 psi	11.9 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1730 psi	11.9 MPa	ISO 37

Typical properties: these are not to be construed as specifications.

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**ExxonMobil Chemical Santoprene™ 8201-80HT
Thermoplastic Vulcanizate**

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Elongation at Break - Across Flow (73°F (23°C))	700 %	700 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	700 %	700 %	ISO 37
Tear Strength - Across Flow (73°F (23°C), Die C)	246 lbf/in	43.0 kN/m	ASTM D624
Tear Strength - Across Flow 73°F (23°C), Method Bb, Angle (Nicked)	250 lbf/in	43 kN/m	ISO 34-1
Compression Set 158°F (70°C), 22.0 hr, Type 1	33 %	33 %	ASTM D395B
158°F (70°C), 70.0 hr, Type 1	46 %	46 %	
Compression Set 158°F (70°C), 22.0 hr, Type A	33 %	33 %	ISO 815
158°F (70°C), 70.0 hr, Type A	46 %	46 %	

Injection Notes

Santoprene TPV is incompatible with acetal and PVC. For more information regarding processing and mold design, please consult our Injection Molding Guide.

Extrusion Notes

Santoprene TPV is incompatible with acetal and PVC. For more information regarding processing and mold design, please consult our Extrusion Guide.

Flammability	Typical Value (English)	Typical Value (SI)	Test Based On
Flame Rating (0.0591 in (1.50 mm))	HB	HB	UL 94

Additional Information

Values are for injection molded plaques, fan-gated, 102.0 mm x 152.0 mm x 2.0 mm (4.000" x 6.000" x 0.080").
Tensile strength, elongation and tensile stress are measured across the flow direction - ISO type 1, ASTM die C.
Compression set at 25% deflection.

Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

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.

Processing Statement

Desiccant drying for 3 hours at 80°C (180°F) can be performed if desired. This grade of Santoprene TPV has a temperature processing window from 180 to 215°C (360 to 420°F) and is incompatible with acetal and PVC. For extrusion, a barrier (double-flighted) screw with a mixing tip is desired. Use of 40/60/80 screen packs is recommended. For more information, please consult our Material Safety Data Sheet, Injection Molding Guide and Extrusion Guide.

Notes

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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