ExxonMobil

Santoprene™ 201-67W171

Thermoplastic Vulcanizate

Product Description

A soft, colorable thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated for low density foamed profile extrusion applications and has long term sealability, low temperature flexibility and heat weldability. This grade of Santoprene TPV is shear-dependent and is designed to be processed using specially adapted physical foam extrusion lines. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Can be foamed using water as the physical blowing agent or specific chemical blowing agents.
- Recommended for applications requiring excellent ozone resistance.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
RoHS Compliance	▪ RoHS Compliant		
Color	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Foam Extrusion		
Revision Date	▪ 06/20/2014		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.960		0.960		ASTM D792
Density	0.960	g/cm³	0.960	g/cm³	ISO 1183

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Shore Hardness					ISO 868
Shore A, 15 sec, 73°F (23°C)	71		71		

Elastomers	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	406	psi	2.80	MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	406	psi	2.80	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1000	psi	6.90	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1000	psi	6.90	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	450	%	450	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	450	%	450	%	ISO 37

Extrusion Notes

Santoprene TPV is incompatible with acetal and PVC. For more information regarding processing and die design, please consult our Technical Literature (TL) on "Water Foaming of Santoprene TPV", TL on "Chemical Foaming Process for Santoprene TPV" and U.S. Patent 5,070,111.

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. 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 80°C (180°F) is recommended. Santoprene TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC. For physical foaming, a specially modified thermoplastic extruder equipped with an adapted foaming agent dosing device is required. For mechanical foaming, a 30:1 extruder is recommended. For more information, please consult our Safety Data Sheet, Technical Literature (TL) on "Water Foaming of Santoprene TPV", TL on "Chemical Foaming Process for Santoprene TPV" and U.S. Patent 5,070,111.

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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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