

Santoprene™ 8291-85TL

Thermoplastic Vulcanizate

Product Description

A hard, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to create multilayer constructions offering bonding to textiles, metals, fluoroelastomers and PAs. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and recyclable within the manufacturing stream.

General

Applications	▪ Automotive - Weather Seals	▪ Consumer Applications
Uses	▪ Automotive Applications ▪ Hose	▪ Metal Bonding ▪ Profiles ▪ Tie-Layer
RoHS Compliance	▪ RoHS Compliant	
Color	▪ Natural Color	
Form(s)	▪ Pellets	
Processing Method	▪ Coextrusion	▪ Extrusion ▪ Profile Extrusion

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.900	0.900	ASTM D792
Density	0.900 g/cm ³	0.900 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)	86	86	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	580 psi	4.00 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	580 psi	4.00 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1330 psi	9.20 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1330 psi	9.20 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	830 %	830 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	830 %	830 %	ISO 37

Extrusion	Typical Value (English)	Typical Value (SI)
Adapter Temperature	420 to 450 °F	216 to 232 °C
Die Temperature	420 to 450 °F	216 to 232 °C

Extrusion Notes

Santoprene TPV is incompatible with acetal and PVC. For more information regarding processing and die design, please consult our Extrusion Guide and our Quick Processing References for Blown Film Lamination, Sheet Extrusion, Crosshead and Co-Extrusion.

Additional Information

Where applicable, test results based on fan gated, injection molded plaques.

Tensile strength, elongation and tensile stress are measured across the flow direction - ISO type 1, ASTM die C.

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.

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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 4 hours at 70°C (160°F) is recommended. Santoprene TPV has a wide temperature processing window from 185 to 260°C (365 to 500°F), depending on substrate conditions and residence time, and is incompatible with acetal and PVC. For more information, please consult our Safety Data Sheet, Extrusion Guide and our Quick Processing References for Blown Film Lamination, Sheet Extrusion, Crosshead and Co-Extrusion.

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.