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Santoprene™ 8221-65M300

Thermoplastic Vulcanizate

Product Description

A soft, colorable, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for automotive interior applications requiring low fogging and good appearance. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Neutral, easy coloring formulation.
- Excellent ozone resistance.
- Used in sealing applications.
- Recommended for applications requiring excellent flex fatigue resistance.
- Designed for improved UV resistance.

General

Availability [1]	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Applications	• Automotive - Grips	• Automotive - Interior	• Automotive - Interior Mat
Uses	• Automotive Applications	• Automotive Interior Parts	• Outdoor Applications
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-AR-27 Type A	• FORD WSS-M2D510-A6	• GM GMW15816 Type 5
Color	• Natural Color		
Form(s)	• Pellets		
Processing Method	• Injection Molding	• Multi Injection Molding	
Revision Date	• 06/20/2014		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.920		0.920		ASTM D792
Density	0.920	g/cm³	0.920	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)	65		65		

Elastomers	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	305	psi	2.10	MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	305	psi	2.10	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	682	psi	4.70	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	682	psi	4.70	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	470	%	470	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	470	%	470	%	ISO 37

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Brittleness Temperature	-76	°F	-60	°C	ASTM D746
Brittleness Temperature	-76	°F	-60	°C	ISO 812

Injection	Typical Value (English)		Typical Value (SI)	
Drying Temperature	180	°F	82	°C
Drying Time	3.0	hr	3.0	hr

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Injection Notes

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

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.

Not recommended for hot oil.

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 more information, please consult our Safety Data Sheet and Injection Molding Guide.

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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