

Santoprene™ 121-60M200

Thermoplastic Vulcanizate

Product Description

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated with high flow properties and excellent aesthetics for use in injection molded parts such as automotive glass encapsulation. 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

- Designed for fast, easy injection molding, especially for complex part geometries.
- Designed to be injected at lower molding temperatures or at lower injection pressures.
- Designed with higher gloss to allow for a wider range of gloss tailoring via mold surface.
- Designed for parts requiring good aesthetics with minimal to no flow defects or tiger stripes.
- RoHS compliant

General						
Availability ¹	Africa & Middle EastAsia Pacific	EuropeLatin America	 North America 			
Applications	 Automotive - Glass Encapsulation Automotive - Seals and Gaskets Automotive - Weather States 					
Uses	 Automotive Applications Outdoor Applications 					
RoHS Compliance	RoHS Compliant					
Automotive Specifications	• GM GMW15812 Type 5					
Color	 Black 					
Form(s)	 Pellets 					
Processing Method	 Injection Molding 	 Multi Injection Molding 				
Revision Date	• 02/11/2015					
Physical	Typical Value (En	glish) Typical Value	(SI) Test Based On			
Specific Gravity	0.950	0.950	ASTM D792			
Density	0.950 g/c	m ³ 0.950	g/cm ³ ISO 1183			
Hardness	Typical Value (En	glish) Typical Value	(SI) Test Based On			
Shore Hardness			ISO 868			
Shore A, 15 sec, 73°F (23°C), 0.0787 in (2.00 mm)	61	61				



ExxonMobil Chemical Santoprene™ 121-60M200 Thermoplastic Vulcanizate

Elastomers	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	290	psi	2.00	MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	290	psi	2.00	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	566	psi	3.90	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	566	psi	3.90	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	360	%	360	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	360	%	360	%	ISO 37
Compression Set					ASTM D395B
158°F (70°C), 22 hr, Type 1	26	%	26	%	
212°F (100°С), 70 hг, Туре 1	33	%	33	%	
257°F (125°C), 70 hr, Type 1	54	%	54	%	
Compression Set					ISO 815
158°F (70°C), 22 hr, Type A	26	%	26	%	
212°F (100°С), 70 hг, Туре А	33	%	33	%	
257°F (125°C), 70 hr, Type A	54	%	54	%	

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.

Compression set at 25% deflection.

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.

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 Material Safety Data Sheet.

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.



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

Worldwide and the Americas

ExxonMobil Chemical Company 22777 Springwoods Village Parkway Spring, TX 77389-1425 LISA Asia Pacific

ExxonMobil Chemical Asia Pacific 1 HarbourFront Place #06-00 HarbourFront Tower One Singapore 098633 Europe, Middle East and Africa ExxonMobil Chemical Europe Hermeslaan 2 1831 Machelen, Belgium

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