

Santoprene™ 121-70B260

Thermoplastic Vulcanizate

Product Description

A medium hard black thermoplastic vulcanizate (TPV) combining a low coefficient of friction with a good bonding to TPV and EPDM rubber. This grade offers excellent processability due to high shear thinning behavior for injection molding of complex geometries and excellent surface aesthetics providing color harmony with extruded profiles, without surface bleeding nor change of friction after heat aging. Santoprene 121-70B260 TPV has been designed for complex corner molding and end caps of automotive dense extruded weatherseals, either in TPV or in EPDM rubber.

Key Features

- Specially formulated to replace thermoset EPDM rubber in automotive GRC corner molding applications
- Designed for shorter processing cycle time compared to thermoset EPDM rubber
- Adheres to vulcanized EPDM rubber and TPV
- Built-in low COF properties
- Good flowability with excellent surface aspect

General

Availability ¹	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Applications	▪ Automotive - Corner Molding and End Caps	▪ Automotive - Weather Seals	
Uses	▪ Outdoor Applications		
RoHS Compliance	▪ RoHS Compliant		
Color	▪ Black		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding	▪ Multi Injection Molding	
Revision Date	▪ 10/25/2017		

Physical

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.910 g/cm ³	0.910 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)	68	68	

Elastomers

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	377 psi	2.60 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	377 psi	2.60 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	928 psi	6.40 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	928 psi	6.40 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	520 %	520 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	520 %	520 %	ISO 37
Compression Set			ASTM D395B
158°F (70°C), 22 hr, Type 1	49 %	49 %	
Compression Set			ISO 815
158°F (70°C), 22 hr, Type A	49 %	49 %	

Injection Notes

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



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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.

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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 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, Injection Molding Guide and Technical Literature (TL) on "Injection Molding of Corners and End Caps to EPDM Weatherseals".

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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