

Santoprene™ 121-65M300

Thermoplastic Vulcanizate

Product Description

A soft, black, 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

- Designed for fast, easy injection molding, especially for complex part geometries.
- Used in sealing applications.
- Recommended for applications requiring superior part surface appearance.
- Designed to be injected at lower molding temperatures or at lower injection pressures.
- Designed for automotive interior applications requiring low fogging and low odor.
- Designed for improved UV resistance.

General

Applications	<ul style="list-style-type: none"> Automotive - Interior Mat Automotive - Weather Seals
Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Interior Trim Automotive Exterior Trim Outdoor Applications
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant
Automotive Specifications	<ul style="list-style-type: none"> CHRYSLER MS-AR-27 Type A
Color	<ul style="list-style-type: none"> Black
Form(s)	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding Multi Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.920	0.920	ASTM D792
Density	0.920 g/cm ³	0.920 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)	65	65	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	334 psi	2.30 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	334 psi	2.30 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	957 psi	6.60 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	957 psi	6.60 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	490 %	490 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	490 %	490 %	ISO 37
Compression Set			ASTM D395B
158°F (70°C), 22 hr, Type 1	41 %	41 %	
212°F (100°C), 70 hr, Type 1	53 %	53 %	
Compression Set			ISO 815
158°F (70°C), 22 hr, Type A	41 %	41 %	
212°F (100°C), 70 hr, Type A	53 %	53 %	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	-62 °F	-52 °C	ASTM D746
Brittleness Temperature	-62 °F	-52 °C	ISO 812



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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.

Aging	Typical Value (English)	Typical Value (SI)	Test Based On
Change in Tensile Strength in Air 212°F (100°C), 1008 hr	-3.0 %	-3.0 %	ASTM D573
Change in Tensile Strength in Air 212°F (100°C), 1008 hr	-3.0 %	-3.0 %	ISO 188
Change in Ultimate Elongation in Air 212°F (100°C), 1008 hr	-10 %	-10 %	ASTM D573
Change in Tensile Strain at Break in Air 212°F (100°C), 1008 hr	-10 %	-10 %	ISO 188
Change in Durometer Hardness in Air Shore A, 212°F (100°C), 1008 hr	2.0	2.0	ASTM D573
Change in Shore Hardness in Air Shore A, 212°F (100°C), 1008 hr	2.0	2.0	ISO 188

