

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.
- Recommended for applications requiring superior part surface appearance with minimal to no flow defects or tiger stripes

General

Applications	▪ Automotive - Glass Encapsulation	▪ Automotive - Seals and Gaskets ▪ Automotive - Weather Seals
Uses	▪ Automotive Applications	▪ Outdoor Applications
RoHS Compliance	▪ RoHS Compliant	
Automotive Specifications	▪ GM GMW15812, Type 5M	
Color	▪ Black	
Form(s)	▪ Pellets	
Processing Method	▪ Injection Molding	▪ Multi Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.950	0.950	ASTM D792
Density	0.950 g/cm ³	0.950 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)	61	61	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	299 psi	2.06 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	299 psi	2.06 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	595 psi	4.10 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	595 psi	4.10 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	380 %	380 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	380 %	380 %	ISO 37
Tear Strength - Across Flow 73°F (23°C), Method Ba, Angle (Unnicked)	100 lbf/in	18 kN/m	ISO 34-1
Compression Set			ASTM D395B
158°F (70°C), 22 hr, Type 1	28 %	28 %	
212°F (100°C), 70 hr, Type 1	33 %	33 %	
257°F (125°C), 70 hr, Type 1	44 %	44 %	
Compression Set			ISO 815
158°F (70°C), 22 hr, Type A	28 %	28 %	
212°F (100°C), 70 hr, Type A	33 %	33 %	
257°F (125°C), 70 hr, Type A	44 %	44 %	



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Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	-74 °F	-59 °C	ISO 812

