

SANTOPRENE™ 121-75M200 - TPV

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

Characteristics

Applications	Automotive - Glass Encapsulation, Automotive - Seals and Gaskets, Automotive - Weather Seals
Uses	Automotive applications, Outdoor applications
Color	Black
Delivery Form	Pellets
Processing	Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	59.3	lb/ft ³	ASTM D792
Density	59.3	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	76	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	455	psi	ASTM D412
Tensile stress at 100%, perpendicular	455	psi	ISO 37
Tensile strength at break elast, perpendicular	837	psi	ASTM D412
Tensile stress at break, perpendicular	837	psi	ISO 37
Elongation at break elast, perpendicular	423	%	ASTM D412
Tensile strain at break, perpendicular	423	%	ISO 37
Tear strength, Method Ba, perpendicular	133	lb/in	ISO 34-1
Compression set, 70 °C, 22h, Type 1, Method B	36	%	ASTM D395
Compression set, 70 °C, 22h, Type A	36	%	ISO 815
Compression set, 100 °C, 70h, Type 1, Method B	43	%	ASTM D395
Compression set, 100 °C, 70h, Type A	43	%	ISO 815
Compression set, 125 °C, 70h, Type 1, Method B	64	%	ASTM D395
Compression set, 125 °C, 70h, Type A	64	%	ISO 815

Other text information

Processing Notes

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.

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Other Approvals

OEM	Specification
Mercedes-Benz Group (Daimler)	DBL 5562
GM	GMW15812, Type 7M
Geely	Q/JLY J7110166B
VW Group	TL52703
VW Group	VW50123