

SANTOPRENE® 121-60M200

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

Typical mechanical properties

Stress at 100% elongation	2.06	MPa	ISO 527-1/-2 or ISO 37
Stress at break	4.1	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	379	%	ISO 527-1/-2 or ISO 37
Shear Modulus	5.76	MPa	ISO 6721
Low temperature brittleness	-59	°C	ISO 812
Shore A hardness, 15s	61		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	28	%	ISO 815
Compression Set, 125°C, 70h	44	%	ISO 815
Tear strength, normal	17.7	kN/m	ISO 34-1

Other properties

Density 950 kg/m³ ISO 1183

Injection

Melt Temperature Optimum 215 °C Internal

Processing Texts

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.

Other Approvals

Other Approvals

OEM	Specification
GM	GMW15812, Type 5M
Li Auto	Q/LiA5310057
Mercedes-Benz Group (Daimler)	DBL 5562
Renault	FRM 18-27-205 /

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Stellantis - Chrysler	MS-AR-100 BMV-HF
Geely	Q/JLY J7110166B
VW Group	TL 527 03
VW Group	VW50123
VW Group	VW50180

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