SANTOPRENE® 121-75M200

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	3.14	MPa	ISO 527-1/-2 or ISO 37
Stress at break	5.77	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	423	%	ISO 527-1/-2 or ISO 37
Shear Modulus	18	MPa	ISO 6721
Shore A hardness, 15s	76		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	36	%	ISO 815
Compression Set, 125°C, 70h	64	%	ISO 815
Tear strength, normal	23.2	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
Mercedes-Benz Group (Daimler)	DBL 5562
GM	GMW15812, Type 7M
Geely	Q/JLY J7110166B
Li Auto	Q/LiA5310057

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VW Group	TL 527 03
VW Group	VW50123

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