

SANTOPRENE™ 121-80M300 - TPV

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

Characteristics

Applications	Automotive - Seals and Gaskets
Uses	Automotive applications, Automotive exterior trim, Automotive interior trim, Outdoor applications
Color	Black
Delivery Form	Pellets
Processing	Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	57.4	lb/ft ³	ASTM D792
Density	57.4	lb/ft ³	ISO 1183

Hardness	Value	Unit	Test Standard
Shore A hardness-TPE, 15s	82		ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	551	psi	ASTM D412
Tensile stress at 100%, perpendicular	551	psi	ISO 37
Tensile strength at break elast, perpendicular	1600	psi	ASTM D412
Tensile stress at break, perpendicular	1600	psi	ISO 37
Elongation at break elast, perpendicular	560	%	ASTM D412
Tensile strain at break, perpendicular	560	%	ISO 37
Compression set, 70 °C, 22h, Type 1, Method B	53	%	ASTM D395
Compression set, 70 °C, 22h, Type A	53	%	ISO 815
Compression set, 100 °C, 70h, Type 1, Method B	56	%	ASTM D395
Compression set, 100 °C, 70h, Type A	56	%	ISO 815

Thermal properties	Value	Unit	Test Standard
Brittleness temperature	-58	°C	ASTM D746

Aging	Value	Unit	Test Standard
Change in Tensile Strength in Air @ 100 C, 1008 h	-7	%	ASTM D573
Change in Tensile Strength in Air @ 100 C, 1008 h	-7	%	ISO 188
Change in Ultimate Elongation in Air @ 100 C, 1008 h	-8	%	ASTM D573
Change in Tensile Strain at Break in Air @ 100 C, 1008 h	-8	%	ISO 188
Change in Durometer Hardness in Air @ 100 C, 1008 h, Shore A	2	-	ASTM D573
Change in Shore Hardness in Air @ 100 C, 1008 h, Shore A	2	-	ISO 188

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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.

Other Approvals

OEM	Specification
Stellantis - Chrysler	MS-AR-100 CMV2
Mercedes-Benz Group (Daimler)	DBL 5562
VW Group	VW50123