

## 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

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

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

Hardness	Value	Unit
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