

SANTOPRENE™ 8221-85M300 - TPV

Product Description

A hard, colorable, 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

- Neutral, easy coloring formulation.
- Excellent ozone resistance.
- Used in sealing applications.
- Recommended for applications requiring excellent flex fatigue resistance.
- Designed for improved UV resistance.

Characteristics

Applications	Automotive - Grips, Automotive - Interior, Automotive - Interior Mat
Uses	Automotive applications, Automotive interior parts, Outdoor applications
Color	Natural color
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	
Shore A hardness-TPE, 15s	84		ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	595	psi	ASTM D412
Tensile stress at 100%, perpendicular	595	psi	ISO 37
Tensile strength at break elast, perpendicular	1310	psi	ASTM D412
Tensile stress at break, perpendicular	1310	psi	ISO 37
Elongation at break elast, perpendicular	500	%	ASTM D412
Tensile strain at break, perpendicular	500	%	ISO 37

Thermal properties	Value	Unit	Test Standard
Brittleness temperature	-59	°C	ASTM D746

Injection	Value	Unit	
Drying temperature	180	°F	
Drying time	3	h	

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	Additional Information
Stellantis - Chrysler		MS-AR-100 DMV2-HF
Ford	WSS-M2D510-A8	
Stellantis - PSA Group	PMP 01994_14_00001	
Mercedes-Benz Group (Daimler)	DBL 5562	
VW Group	VW50123	
VW Group	VW50180	