

SANTOPRENE™ 8211-85M350 - TPV

Product Description

A hard, colorable, thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is developed to be used as a skin for molding onto rigid polypropylene substrates in automotive interior applications such as door panels and center consoles. For these applications, this grade combines low gloss, high scratch and mar resistance, low emissions (fogging, odor) and comfort touch. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional mono- and multi-component injection molding machines. It is polyolefin based, adheres to and is compatible with polypropylene, and is recyclable within the manufacturing stream.

Key Features

- Non-hygroscopic product, requires little to no drying before processing.
- Neutral, easy coloring formulation.
- Designed for applications requiring high-flow materials.
- Low emissions.
- Cost effective alternative to soft touch paint over PP substrate.

Characteristics

Applications	Automotive - Interior Applications
Color	Natural color
Delivery Form	Pellets
Processing	Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	56.8	lb/ft ³	ASTM D792
Density	56.8	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	86	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile strength at break elast, perpendicular	1280	psi	ASTM D412
Tensile stress at break, perpendicular	1280	psi	ISO 37
Elongation at break elast, perpendicular	480	%	ASTM D412
Tensile strain at break, perpendicular	480	%	ISO 37

Other text information

Processing Notes

Desiccant drying for 3 hours at 80°C (180°F) can be performed if desired. 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
Mercedes-Benz Group (Daimler)	DBL 5562
VW Group	VW50123
VW Group	VW50180