

SANTOPRENE™ 121-70M350 - TPV

Product Description

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for gap filler applications requiring scratch resistance 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

Characteristics

Uses	Outdoor applications
Color	Black
Delivery Form	Pellets
Processing	Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	58.1	lb/ft ³	ASTM D792
Density	58.1	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	70	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	377	psi	ASTM D412
Tensile stress at 100%, perpendicular	377	psi	ISO 37
Tensile strength at break elast, perpendicular	899	psi	ASTM D412
Tensile stress at break, perpendicular	899	psi	ISO 37
Elongation at break elast, perpendicular	480	%	ASTM D412
Tensile strain at break, perpendicular	480	%	ISO 37
Compression set, 70 °C, 22h, Type 1, Method B	40	%	ASTM D395
Compression set, 70 °C, 22h, Type A	40	%	ISO 815

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
Mercedes-Benz Group (Daimler)	DBL 5562
VW Group	TL52622 MDX1/12
VW Group	VW50123
VW Group	VW50180