

# SANTOPRENE® 123-50W175

A hard, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in thin wall applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion, blow molding, thermoforming or vacuum forming. It is polyolefin based and recyclable within the manufacturing stream.

## Key Features

- Recommended for applications requiring excellent flex fatigue resistance
- Recommended for applications requiring excellent ozone resistance
- Designed for improved UV resistance

## Typical mechanical properties

Yield stress, perpendicular	12.7 MPa	ISO 527-1/-2 or ISO 37
Yield strain, perpendicular	26.5 %	ISO 527-1/-2 or ISO 37
Shore D hardness, 15s	51	ISO 48-4 / ISO 868
Initial Tear Resist., Die C	107 kN/m	ISO 34-1

## Other properties

Density	946 kg/m <sup>3</sup>	ISO 1183
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## Processing Texts

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

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OEM	Specification	Additional Information
Stellantis - Chrysler	MS-AR-100 HGV	
GM	GMW15812, Type 10E	
Stellantis - FCA Group	55248/02	EMP-150
Mercedes-Benz Group (Daimler)	DBL 5562	
Renault	FRM 18-27-038 /---	
Iveco	IVECO 15-5244	EMP-150
Hyundai	MS220-05, Type R	
Hyundai	MS220-13, Type F-1	
VW Group	VW50123	

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