

SANTOPRENE® 123-52W242

SANTOPRENE®

A hard, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material has low friction resistance and is especially designed for slip-coating materials in weatherseal applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Designed for applications requiring excellent wear resistance, excellent weather resistance or part surface with low friction factor
- Co-extrudable with other olefin thermoplastic rubbers
- Designed for excellent surface smoothness and flexibility as slip-coating material

Product information

Resin Identification	TPV	ISO 1043
Part Marking Code	>TPV<	ISO 11469

Typical mechanical properties

Shore D hardness, 15s	52	ISO 48-4 / ISO 868
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Flammability

FMVSS Class	B	ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	26.1 mm/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	950 kg/m ³	ISO 1183
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Characteristics

Processing	Coextrusion
Delivery form	Pellets
Special characteristics	U.V. stabilised or stable to weather

Additional information

Injection molding	<p>Holding pressure should be about 50 to 75% of the actual injection pressure.</p> <p>A high screw RPM (100 to 200) is recommended.</p> <p>Back pressure is not always needed, however, a back pressure of 0.3 to 0.7 MPa may be used to ensure a homogeneous melt and maintain a consistent shot size.</p> <p>A higher back pressure is normally employed when using masterbatches.</p>
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Processing Notes

Processing Notes

Desiccant drying for 4 hours at 65°C (150°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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Automotive

OEM	STANDARD
Hyundai	MS220-13 Type E-1
Renault	FRM 18-27-143 /---, No Spec, Special Part Approval, See Your CE Account Manager.
VW Group	VW 50123

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