



# 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

## Flammability

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

#### Physical/Other properties

Density 950 kg/m<sup>3</sup> ISO 1183

#### Characteristics

Processing Coextrusion Delivery form **Pellets** 

Special characteristics U.V. stabilised or stable to weather

#### Additional information

Injection molding Holding pressure should be about 50 to 75% of the actual injection pressure.

A high screw RPM (100 to 200) is recommended.

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. A higher back pressure is normally employed when using masterbatches.

**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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