

# SANTOPRENE® 8291-85TL

## SANTOPRENE®

A hard, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to create multilayer constructions offering bonding to textiles, metals, fluoroelastomers and PAs. 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.

### Product information

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

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	4 MPa	ISO 37
Tensile stress at break, perpendicular	9.2 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	830 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	86	ISO 48-4 / ISO 868

### Flammability

FMVSS Class	B	ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	35.6 mm/min	ISO 3795 (FMVSS 302)

### Physical/Other properties

Density	900 kg/m <sup>3</sup>	ISO 1183
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### Characteristics

Processing	Extrusion, Coextrusion
Delivery form	Pellets

### 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.
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#### Processing Notes

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Desiccant drying for 4 hours at 70°C (160°F) is recommended. Santoprene® TPV has a wide temperature processing window from 185 to 260°C (365 to 500°F), depending on substrate conditions and residence time, and is incompatible with acetal and PVC.

### Automotive

OEM	STANDARD
VW Group	VW 50123