

SANTOPRENE® 9101-80E

SANTOPRENE®

A black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for coextrusion applications, particularly for the static foot of automotive weatherseal systems like glass run channels. This grade of Santoprene™ TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion or thermoforming. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- · Recommended for coextruded applications not exposed to UV light.
- Recommended for applications requiring excellent ozone resistance.
- · Designed to maximize run length with minimal build-up of material on screen packs or narrow sections of dies.

Product information

Resin Identification Part Marking Code	TPV >TPV<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular Tensile stress at break, perpendicular Elongation at break, perpendicular Shore A hardness, 15s Compression set, 70°C, 24h	•••		ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868 ISO 815
Physical/Other properties			
Density	970	kg/m³	ISO 1183
Extrusion			
Drying Temperature Drying Time, Dehumidified Dryer Melt Temperature Range	-	°C h °C	

Characteristics

Processing	Coextrusion, Thermoforming	
Delivery form	Pellets	

Additional information

Non Standard Data	
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Property Name	Condition	Value	Unit	Standard
Change in Tensile Strength	150°C, 168h	-24.9	%	ISO 188
Change in Tensile Strain at Break	150°C, 168h	-23.4	%	ISO 188
Change in Shore A	150°C, 168h	1	-	ISO 188





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VW TL 527 03

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	Hardness		
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 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. Do not exceed 15% drawdown.		
Automotive			
OEM	STANDARD		
SAIC Motor	SMTC 5 320 024		
Stellantis	55248_02 EMP80		
VW Group	VW 50123		

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VW Group

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