

SANTOPRENE™ 9101-80E - TPV

Product Description

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.

Characteristics

Applications	Automotive - Seals and Gaskets, Automotive - Weather Seals
Color	Black
Delivery Form	Pellets
Processing	Coextrusion, Thermoforming

Physical properties	Value	Unit	Test Standard
Density	60.6	lb/ft ³	ASTM D792
Density	60.6	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	80	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	493	psi	ASTM D412
Tensile stress at 100%, perpendicular	493	psi	ISO 37
Tensile strength at break elast, perpendicular	1020	psi	ASTM D412
Tensile stress at break, perpendicular	1020	psi	ISO 37
Elongation at break elast, perpendicular	670	%	ASTM D412
Tensile strain at break, perpendicular	670	%	ISO 37
Compression set, 70 °C, 22h, Type 1, Method B	48	%	ASTM D395
Compression set, 70 °C, 22h, Type A	48	%	ISO 815

Extrusion	Value	Unit
Drying temperature	180	°F
Drying time	3	h
Melt temperature	351 - 399	°F
Die head temperature	399	°F
Back pressure	725 - 2900	psi

Other text information

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.

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Other Approvals

OEM	Specification	Additional Information
VW Group	VW50123	
VW Group	TL52703	
Stellantis - FCA Group	EMP 80	55248_02
