

SANTOPRENE[®] 121-87

A hard, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion, blow molding, thermoforming or vacuum forming. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- · Recommended for applications requiring excellent flex fatigue resistance
- Excellent ozone resistance
- Designed for improved UV resistance

Typical mechanical properties

6.8	MPa	ISO 527-1/-2 or ISO 37
15.2	MPa	ISO 527-1/-2 or ISO 37
600	%	ISO 527-1/-2 or ISO 37
-58	°C	ASTM D 746
-58	°C	ISO 812
93		ISO 48-4 / ISO 868
1		ISO 48-4 / ISO 868
28	%	ISO 815
65	%	ISO 815
26	kV/mm	ASTM D 149
970	kg/m³	ISO 1183
82	°C	
3	h	
0.08	%	
20	%	
10 - 52	°C	
25	μm	
0.345 - 0.689	MPa	
fast		
	6.8 15.2 600 -58 -58 93 1 28 65 26 970 970 82 3 0.08 20 10 - 52 25 0.345 - 0.689 fast	6.8 MPa 15.2 MPa 600 % -58 °C -58 °C 93 1 28 % 65 % 26 kV/mm 970 kg/m ³ 82 °C 3 h 0.08 % 20 % 10 - 52 °C 25 μm 0.345 - 0.689 MPa fast

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Extrusion

Drying Temperature	82	°C
Drying Time, Dehumidified Dryer	3	h
Melt Temperature Range	204	°C

Processing Texts

Processing Notes

Desiccant drying for 3 hours at $80 \degree C$ ($180 \degree F$) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to $230 \degree C$ (350 to $450 \degree F$) and is incompatible with acetal and PVC.

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Stellantis - Chrysler	MS-AR-100 EGV	
Ford	WSS-M2D382-B1	
GM	GMW15812, Type 8E	
Li Auto	Q/LiA5310057	2021 (V2)
Stellantis - PSA Group	PMP 01378_15_01963	
Mercedes-Benz Group (Daimler)	DBL 5562	
Stellantis - FCA Group	55248/02	EMP-90
Geely	Q/JLY J7110166B	
Hyundai	MS220-05, Type N	
lveco	IVECO 15-5244	EMP-90
Renault	FRM 18-27-145	
VW Group	VW50123	

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