

SANTOPRENE® 121-79W233

A soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to bond to sulfur or peroxide-cured thermoset EPDM rubber for corner molding, end caps and special fixation applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Designed for applications requiring excellent adhesion to vulcanized EPDM rubber
- Specially formulated to replace thermoset EPDM rubber in automotive glass run channel corner molding applications
- · Designed for shorter processing time compared to thermoset EPDM rubber

Typical mechanical properties

Stress at 100% elongation	3.6	MPa	ISO 527-1/-2 or ISO 37
Stress at break	7.4	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	615	%	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-60	°C	ASTM D 746
Low temperature brittleness	-60	°C	ISO 812
Shore A hardness, 15s	84		ISO 48-4 / ISO 868
Shore A hardness change, after ageing	-1		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	49	%	ISO 815
Other properties			
Density	930	kg/m³	ISO 1183
Injection			
Drying Temperature	82	°C	
Drying Time, Dehumidified Dryer	3	h	
Processing Moisture Content	0.08	%	
Max. regrind level	20	%	
Max. mould temperature	10 - 52	°C	
Vent depth	25	μm	
Back pressure	0.345 - 0.689	•	
Injection speed	fast		

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.



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Other Approvals

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OEM	Specification
Stellantis - PSA Group	PMP 01378_15_01961
Mercedes-Benz Group (Daimler)	DBL 5562
Renault	FRM 18-27-068
VW Group	VW50123

Printed: 2023-08-08

Revised: 2023-04-27 Source: Celanese Materials Database

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