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	MPa
Injection speed	fast	

Processing Texts

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.

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Other Approvals

Other Approvals

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

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