

## ExxonMobil Santoprene® 121-79W233 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

### Material Notes:

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 completely recyclable. 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. EU and China RoHS compliant. Applications: Automotive- Seals and Gaskets Uses: Automotive Applications Automotive Exterior Trim Bonding Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America Information provided by ExxonMobil Chemical

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[http://www.lookpolymers.com/polymer\\_ExxonMobil-Santoprene-121-79W233-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-121-79W233-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	Air at 212°F, 70 hr; ASTM D573
	84	84	2 mm, 15 sec; ISO 868
Tensile Strength at Break	7.082 MPa	1027 psi	Air at 212°F, 70 hr; ASTM D573
	7.38 MPa	1070 psi	Across Flow; ASTM D412
Tensile Stress	3.60 MPa	522 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	613.2 %	613.2 %	Air at 212°F, 70 hr; ASTM D573
	620 %	620 %	Across Flow; ASTM D412
Tear Strength	36.8 kN/m	210 pli	73°F, Die C, Across Flow; ASTM D624
Compression Set	49 %	49 %	158°F, 22 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Processing Properties	Metric 51.7 °C	English 25 °F	Comments
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 hour	3 hour	
Moisture Content	0.080 %	0.080 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	Processing
Clamp Pressure	41.4 - 68.9 MPa	6000 - 10000 psi	
Vent Depth	0.00254 cm	0.00100 in	
Cushion	0.317 - 0.635 cm	0.125 - 0.250 in	
Screw Speed	100 - 200 rpm	100 - 200 rpm	

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	
Injection Rate	Fast	
Maximum Regrind %	20	
Screw Compression Ratio	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

## Contact Songhan Plastic Technology Co.,Ltd.

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