

ExxonMobil Santoprene® 121-67W175 Thermoplastic Elastomer

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

Material Notes:

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance, and is designed for thin wall or complex profile extrusion applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and completely recyclable. Key Features: Recommended for applications requiring excellent flex fatigue resistance. Excellent ozone resistance. Designed for improved UV resistance. Compliant to EU Directive 2003/11/EC regarding marketing and use of certain dangerous substances and preparations, specifically pentabromodiphenyl ether or octabromodiphenyl ether. Designed for extruding thin sections with excellent definition (down to 0.33 mm [0.013"] radius). Long runs with minimal build-up of material on screen packs or narrow die sections. EU and China RoHS compliant Applications: Automotive- Interior Mat, Seals, Gaskets and Weather Seals Uses: Automotive Applications Automotive Exterior Trim 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-121-67W175-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	67	67	.12 in; ASTM D2240
	71	71	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	4.279 MPa	620.6 psi	257°F, 70 hr, in IRM 903 Oil; ASTM D471
	6.64 MPa	963 psi	Air at 302°F, 168 hr; ASTM D573
	7.38 MPa	1070 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	2.96 MPa	430 psi	Across Flow; ASTM D412
Elongation at Break	202.5 %	202.5 %	257°F, 70 hr, in IRM 903 Oil; ASTM D471
	445.5 %	445.5 %	Air at 302°F, 168 hr; ASTM D573
	450 %	450 %	Across Flow; ASTM D412
Tear Strength	22.1 kN/m	126 pli	73°F, Die C; ASTM D624
Compression Set	30 %	30 %	158°F, 22 hr; ASTM D395
	41 %	41 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 °C	275 °F	
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.6	2.6	ASTM D150
Dielectric Strength	28.3 kV/mm	720 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Die Temperature	204 °C	400 °F	Extrusion
Melt Temperature	177 - 204 °C	350 - 400 °F	Extrusion
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 hour	3 hour	
Back Pressure	5.00 - 20.0 MPa	725 - 2900 psi	Extrusion

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	

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