

ExxonMobil Santoprene® 123-50 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

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 or blow molding. It is polyolefin based and completely recyclable. Recommended for applications requiring excellent flex fatigue resistance. Excellent ozone resistance. Designed for improved UV resistance. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-123-50-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	.12 in; ASTM D2240
	57	57	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	9.260 MPa	1343 psi	257°F, 70 hr in IRM 903 Oil; ASTM D471
	9.38 MPa	1360 psi	Air at 302°F, 168 hr; ASTM D573
Tensile Strength, Ultimate	11.7 MPa	1700 psi	Across Flow; ASTM D412
Elongation at Break	22.2 %	22.2 %	Air at 302°F, 168 hr; ASTM D573
	25.2 %	25.2 %	257°F, 70 hr, in IRM 903 Oil; ASTM D471
	30 %	30 %	Across Flow; ASTM D412
Tear Strength	86.1 kN/m	491 pli	73°F, Die C; ASTM D624

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-36.1 °C	-33.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Strength	25.2 kV/mm	640 kV/in	ASTM D149
	33.5 kV/mm	850 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	193 °C	380 °F	
Middle Barrel Temperature	199 °C	390 °F	
Front Barrel Temperature	204 °C	400 °F	
Nozzle Temperature	210 - 241 °C	410 - 465 °F	
Die Temperature	216 °C	420 °F	Extrusion
Melt Temperature	210 °C	410 °F	Extrusion
	216 - 232 °C	420 - 450 °F	Processing
Mold Temperature	10.0 - 51.7 °C	50.0 - 125 °F	Processing
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
	5.00 - 20.0 MPa	725 - 2900 psi	Extrusion
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	

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