

ExxonMobil Santoprene® 111-64 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A soft, black, versatile 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 injection molding 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. Recommended for applications requiring excellent flex fatigue resistance. Excellent ozone resistance. Designed for applications requiring high-flow materials. Recommended for applications requiring superior part surface appearance. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-111-64-Thermoplastic-Elastomer-nbspdiscontinued-.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	64	64	.12 in; ASTM D2240
	72	72	Air at 257°F, 1000 hr; ASTM D573
Tensile Strength at Break	3.85 MPa	558 psi	257°F, 168 hr in IRM 903 Oil; ASTM D471
	6.21 MPa	900 psi	Across Flow; ASTM D412
	6.33 MPa	918 psi	Air at 257°F, 1000 hr; ASTM D573
Tensile Strength, Ultimate	2.62 MPa	380 psi	Across Flow; ASTM D412
Elongation at Break	219.3 %	219.3 %	257°F, 168 hr, in IRM 903 Oil; ASTM D471
	430 %	430 %	Across Flow; ASTM D412
	498.8 %	498.8 %	Air at 257°F, 1000 hr; ASTM D573
Compression Set	33 %	33 %	158°F, 22 hr; ASTM D395
	42 %	42 %	176°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Brittleness Temperature	-61.1 °C	-78.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	ASTM D257
	1.10e+18 ohm-cm	1.10e+18 ohm-cm	ASTM D257
Dielectric Strength	22.8 kV/mm	580 kV/in	ASTM D149
	29.5 kV/mm	750 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	177 - 193 °C	350 - 380 °F	
Middle Barrel Temperature	179 - 199 °C	355 - 390 °F	
Front Barrel Temperature	179 - 204 °C	355 - 400 °F	
Nozzle Temperature	191 - 229 °C	375 - 445 °F	
Melt Temperature	193 - 241 °C	380 - 465 °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
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	

Descriptive Properties	Value	Comments
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