

ExxonMobil Santoprene® 273-50 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A hard, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It complies with FDA regulations for rubber articles intended for repeated use, as well as those in contact with non-fatty, non-oily foods as closures and sealing gaskets. 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. Recommended for applications requiring excellent ozone resistance. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-273-50-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	.12 in; ASTM D2240
Tensile Strength, Yield	8.1579 MPa	1183.2 psi	Air at 302°F, 168 hr; ASTM D573
	9.2376 MPa	1339.8 psi	257°F, 70 hr, in IRM 903 Oil; ASTM D471
	12.0 MPa	1740 psi	ASTM D638
Elongation at Yield	21.9 %	21.9 %	257°F, 70 hr, in IRM 903 Oil; ASTM D471
	21.9 %	21.9 %	Air at 302°F, 168 hr; ASTM D573
	30 %	30 %	ASTM D638
Tear Strength	87.1 kN/m	497 pli	73°F, Die C; ASTM D624
Compression Set	59 %	59 %	158°F, 22 hr; ASTM D395
	74 %	74 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-27.8 °C	-18.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	193 °C	380 °F	

Middle Barrel Temperature Processing Properties	199 °C Metric	390 °F English	Comments
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	
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	Natural Color	
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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