

ExxonMobil Santoprene® 223-50 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A hard, colorable, 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-223-50-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 A	50	50	.12 in; ASTM D2240
Tensile Strength, Yield	8.6357 MPa	1252.5 psi	257°F, 70 hr, in IRM 903 Oil; ASTM D417
	8.8660 MPa	1285.9 psi	Air at 302°F, 168 hr; ASTM D573
	11.5 MPa	1670 psi	ASTM D638
Elongation at Yield	19.8 %	19.8 %	Air at 302°F, 168 hr; ASTM D573
	24.9 %	24.9 %	257°F, 70 hr, in IRM 903 Oil; ASTM D573
	30 %	30 %	ASTM D638
Tear Strength	85.0 kN/m	485 pli	73°F, Die C; ASTM D624
Compression Set	66 %	66 %	158°F, 22 hr; ASTM D395
	86 %	86 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-33.9 °C	-29.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	185 °C	365 °F	

Middle Barrel Temperature Processing Properties	191 °C Metric	375 °F English	Comments
Front Barrel Temperature	196 °C	385 °F	
Nozzle Temperature	202 °C	395 °F	
Melt Temperature	207 °C	405 °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	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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