

ExxonMobil Santoprene® 221-64W175 Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A soft, colorable, 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. 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. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-221-64W175-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
	69	69	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	2.555 MPa	370.5 psi	Air at 302°F, 168 hr; ASTM D573
	6.62 MPa	960 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	2.69 MPa	390 psi	Across Flow; ASTM D412
Elongation at Break	437 %	437 %	Air at 302°F, 168 hr; ASTM D573
	460 %	460 %	Across Flow; ASTM D412
Tear Strength	23.0 kN/m	131 pli	73°F, Die C; ASTM D624
Compression Set	19 %	19 %	73°F, 22 hr; ASTM D395
	39 %	39 %	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
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Dielectric Constant Electrical Properties	2.4 Metric	2.4 English	ASTM D150 Comments
Dielectric Strength	34.3 kV/mm	870 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	Natural Color	
Form	Pellets	

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