

ExxonMobil Santoprene® 8221-60 Thermoplastic Rubber (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

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 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 or blow molding. It is polyolefin based and completely recyclable. Key Features: UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. Neutral, easy coloring formulation. Used in sealing applications. EU and China RoHS compliant. Applications: Industrial - Architectural and Construction Uses: Construction Applications Glazing Expansion Joint Outdoor Applications Processing Method: Blow Molding, Extrusion Blow Molding, Injection Blow Molding, Injection Molding and Multi Injection Molding Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8221-60-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Maximum Moisture Content	0.080	0.080	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	2 mm, 15 sec; ISO 868
Tensile Strength at Break	5.70 MPa	827 psi	Across flow; ASTM D412
Tensile Strength, Yield	2.20 MPa @Strain 100 %	319 psi @Strain 100 %	Across flow; ASTM D412
Elongation at Break	470 %	470 %	Across flow; ASTM D412
Compression Set	32 % @Temperature 70.0 °C, Time 79200 sec	32 % @Temperature 158 °F, Time 22.0 hour	ASTM D395B
	60 % @Temperature 125 °C, Time 252000 sec	60 % @Temperature 257 °F, Time 70.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-62.8 °C	-81.0 °F	ASTM D746
UL RTI, Electrical	100 °C	212 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.10 mm	@Thickness 0.0433 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3	2.3	ASTM D150
	@Thickness 2.01 mm	@Thickness 0.0791 in	
Dielectric Strength	31.1 kV/mm	790 kV/in	ASTM D149
	@Thickness 2.03 mm	@Thickness 0.0799 in	

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	177 - 191 °C	351 - 376 °F	
Middle Barrel Temperature	179 - 193 °C	354 - 379 °F	
Front Barrel Temperature	185 - 199 °C	365 - 390 °F	
Nozzle Temperature	185 - 210 °C	365 - 410 °F	
Die Temperature	177 - 216 °C	351 - 421 °F	Extrusion
Melt Temperature	143 - 216 °C	289 - 421 °F	Processing
	179 - 216 °C	354 - 421 °F	Extrusion
Mold Temperature	23.9 - 51.7 °C	75.0 - 125 °F	
Drying Temperature	82.0 °C	180 °F	
Dry Time	3 hour	3 hour	
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	
Clamp Pressure	41.0 - 69.0 MPa	5950 - 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
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Injection Rate Descriptive Properties	Fast Value	Comments
Max Regrind	20%	
Screw Compression Ratio	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

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