

ExxonMobil Santoprene® 8221-70 Thermoplastic Elastomer

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 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 – Architecture and Construction Uses: Construction Applications Expansion Joint Glazing 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-8221-70-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	2 mm, 15 sec; ISO 868
Tensile Strength at Break	6.80 MPa	986 psi	Across Flow; ASTM D412
Tensile Stress	2.90 MPa @Strain 100 %	421 psi @Strain 100 %	Across Flow; ASTM D412
Elongation at Break	600 %	600 %	Across Flow; ASTM D412
Tear Strength	25.1 kN/m	143 pli	73°C, Die C; ASTM D624
Compression Set	38 %	38 %	158°F, 22 hr; ASTM D395
	58 %	58 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-62.2 °C	-80.0 °F	ASTM D746
UL RTI, Electrical	100 °C	212 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746
Flammability, UL94	HB @Thickness 1.10 mm	HB @Thickness 0.0433 in	

Thermal Properties	^{HB} Metric	^{HB} English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	179 - 196 °C	355 - 385 °F	
Middle Barrel Temperature	185 - 199 °C	365 - 390 °F	
Front Barrel Temperature	191 - 204 °C	375 - 400 °F	
Nozzle Temperature	191 - 210 °C	375 - 410 °F	
Die Temperature	185 - 221 °C	365 - 430 °F	Extrusion
Melt Temperature	185 - 221 °C	365 - 430 °F	Extrusion
	199 - 216 °C	390 - 420 °F	Processing
Mold Temperature	23.9 - 51.7 °C	75.0 - 125 °F	Processing
Moisture Content	0.080 %	0.080 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China