

ExxonMobil Santoprene® 8271-65 Thermoplastic Elastomer

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

Material Notes:

A soft, colorable, specialty, non-hygroscopic 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 8000 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. Key Features: This product, in principle, can be used in food contact applications in the USA (FDA). Migration or use limitations may apply. Complies with NSF Standard 51: Food Equipment Materials - Plastics, materials and components used in food equipment. UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. Recommended for applications requiring excellent flex fatigue resistance. Non-hygroscopic product; requires little to no drying before processing. Neutral, easy coloring formulation. EU and China RoHS compliant. Applications: Consumer – FDA Seals and Closures, Packaging, Small Appliance and Soft Touch Grips Industrial – Seals and Gaskets Tubing Uses: Flexible Grips Food Containers Kitchenware Living Hinges Non-specific Food Applications Seals Tubing White Goods and Small Appliances 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-8271-65-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	69	69	2 mm, 15 sec; ISO 868
	72	72	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	6.437 MPa	933.6 psi	Air at 302°F, 168 hr; ASTM D573
	6.50 MPa	943 psi	Across Flow; ASTM D412
Tensile Stress	2.70 MPa	392 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	361.9 %	361.9 %	Air at 302°F, 168 hr; ASTM D573
	470 %	470 %	Across Flow; ASTM D412
Tear Strength	18.9 kN/m	108 pli	73°C, Die C; ASTM D624
Compression Set	32 %	32 %	158°F, 22 hr; ASTM D395

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
Flammability, UL94	HB	HB	
	@Thickness 1.10 mm	@Thickness 0.0433 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	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	
Melt Temperature	143 - 216 °C	289 - 421 °F	Processing
Mold Temperature	23.9 - 51.7 °C	75.0 - 125 °F	
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 Descriptive Properties	2:1 - 2.5:1 Value	Comments
Screw L/D Ratio	16:1 - 20:1	

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