

ExxonMobil Santoprene® 8201-80 Thermoplastic Elastomer

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

Material Notes:

A soft, colorable, non-hygroscopic 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 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: Non-hygroscopic product, requires little to no drying before processing. Neutral, easy coloring formulation. Recommended for applications requiring excellent ozone resistance. Used in sealing applications. Recommended for applications requiring excellent flex fatigue resistance. Although not NSF certified, this product has a Material Supplier Form on file with NSF to facilitate its evaluation for use in applications requiring NSF certification. EU and China RoHS compliant. Applications: Consumer – Cell Phones and Packaging. General Purpose Uses: Appliance Components, Cell Phones, Flexible Grips, Kitchenware, Stationary Supplies, Strain Reliefs. Processing Method: Blow Molding, Coextrusion, Extrusion, Extrusion Blow Molding, Injection Molding, Multi Injection Molding, Profile Extrusion, Sheet Extrusion, Thermoforming and Vacuum Forming. 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-8201-80-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	85	85	2 mm, 15 sec; ISO 868
	86	86	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	9.2031 MPa	1334.8 psi	Air at 302°F, 168 hr; ASTM D573
	9.79 MPa	1420 psi	Across Flow; ASTM D412
Elongation at Break	510.3 %	510.3 %	Air at 302°F, 168 hr; ASTM D573
	630 %	630 %	Across Flow; ASTM D412
Tear Strength	43.1 kN/m	246 pli	73°C, Die C; ASTM D624
Compression Set	35 %	35 %	158°F, 22 hr; ASTM D395
	69 %	69 %	257°F, 70 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

Thermal Properties	Metric	English	Comments
UL FH, Mechanical with impact	@Thickness 27.9 mm	@Thickness 1.10 in	UL 746
	90.0 °C	194 °F	UL 746
	@Thickness 40.6 mm	@Thickness 1.60 in	
	95.0 °C	203 °F	UL 746
	@Thickness 76.2 mm	@Thickness 3.00 in	
Flammability, UL94	HB	HB	
	@Thickness 27.9 mm	@Thickness 1.10 in	
	HB	HB	
	@Thickness 40.6 mm	@Thickness 1.60 in	
	HB	HB	
	@Thickness 76.2 mm	@Thickness 3.00 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+16 ohm-cm	2.40e+16 ohm-cm	3.30 mm; ASTM D257
	5.50e+17 ohm-cm	5.50e+17 ohm-cm	2.03 mm; ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	185 - 199 °C	365 - 390 °F	
Middle Barrel Temperature	191 - 204 °C	375 - 400 °F	
Front Barrel Temperature	191 - 204 °C	375 - 400 °F	
Nozzle Temperature	199 - 216 °C	390 - 420 °F	
Die Temperature	191 - 224 °C	375 - 435 °F	Extrusion
Melt Temperature	199 - 216 °C	390 - 420 °F	Processing
	191 - 224 °C	375 - 435 °F	Extrusion
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	

Processing Properties	0.00254 cm Metric	0.00100 in English	Comments
Cushion	0.317 - 0.635 cm	0.125 - 0.250 in	
Screw Speed	100 - 200 rpm	100 - 200 rpm	

Descriptive Properties	Value	Comments
Change in Mass in Air	-8.0%	150°C, 168 hr, ASTM D573
Color	Natural Color	
Form	Pellets	
Injection Rate	Fast	
Maximum Re grind %	20	
Screw Compression Ratio	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

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