

## ExxonMobil Santoprene® 8201-70 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. UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. 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 – Kitchen Tools, Soft Touch Grips and Consumer Applications. Uses: Appliance Components, Cell Phones, Flexible Grips, Kitchenware, Stationary Supplies, Strain Reliefs. Processing Method: Blow Molding, Extrusion, Extrusion Blow Molding, Injection Molding, Multi Injection Molding, Profile Extrusion, Sheet Extrusion. Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America. Information provided by Advanced Elastomer Systems

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Santoprene-8201-70-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8201-70-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	70	70	.12 in; ASTM D2240
	72	72	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	6.84 MPa	992 psi	Air at 302°F, 168 hr; ASTM D573
	7.52 MPa	1090 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	2.90 MPa	420 psi	Across Flow; ASTM D412
	2.90 MPa	421 psi	Across Flow; ASTM D412
Tensile Stress	@Strain 100 %	@Strain 100 %	Across Flow; ASTM D412
Elongation at Break	524.4 %	524.4 %	Air at 302°F, 168 hr; ASTM D573
	570 %	570 %	Across Flow; ASTM D412
Tear Strength	26.1 kN/m	149 pli	73°C, Die C; ASTM D624
Compression Set	36 %	36 %	158°F, 22 hr; ASTM D395
	57 %	57 %	257°F, 70 hr; ASTM D395

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Brittleness Temperature	-81.0 °C	-114 °F	ASTM D746
UL RTI, Electrical	100 °C	212 °F	UL 746
UL RTI, Mechanical with Impact	90.0 °C	194 °F	UL 746
	@Thickness 27.9 mm	@Thickness 1.10 in	
	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	

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	199 - 210 °C	390 - 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
	199 - 216 °C	390 - 420 °F	
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	

Processing Properties	Metric	English	Comments
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
Change in Mass in Air	-9.0%	150°C, 168 hr, ASTM D573
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.

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