

ExxonMobil Santoprene® 8201-60 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 – 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 ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8201-60-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	64	64	2 mm, 15 sec; ISO 868
	65	65	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	5.371 MPa	779.0 psi	Air at 302°F, 168 hr; ASTM D573
	5.90 MPa	856 psi	Across Flow; ASTM D412
Tensile Stress	2.20 MPa	319 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	483.6 %	483.6 %	Air at 302°F, 168 hr; ASTM D573
	520 %	520 %	Across Flow; ASTM D412
Tear Strength	32.1 kN/m	183 pli	73°C, Die C; ASTM D624
Compression Set	29 %	29 %	158°F, 22 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-76.0 °C	-105 °F	ASTM D746

UL RTI Electrical Thermal Properties	100 °C Metric	212 °F English	UL 746 Comments
UL RTI, Mechanical with Impact	90.0 °C	194 °F	UL 746
	@Thickness 1.10 mm	@Thickness 0.0433 in	
	90.0 °C	194 °F	UL 746
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	95.0 °C	203 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	
	@Thickness 1.10 mm	@Thickness 0.0433 in	
	HB	HB	
	@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	177 - 191 °C	350 - 375 °F	
Middle Barrel Temperature	179 - 193 °C	355 - 380 °F	
Front Barrel Temperature	185 - 199 °C	365 - 390 °F	
Nozzle Temperature	185 - 210 °C	365 - 410 °F	
Die Temperature	177 - 216 °C	350 - 420 °F	Extrusion
Melt Temperature	143 - 216 °C	290 - 420 °F	Processing
	179 - 216 °C	355 - 420 °F	
	179 - 216 °C	355 - 420 °F	Extrusion
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	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value	Comments	
Change in Mass in Air	-8.0%		at 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		

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