

ExxonMobil Santoprene® 8211-35 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 difficult injection molding applications. This grade of Santoprene 8000 TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and completely recyclable. Key Features: Non-hygroscopic product, requires little to no drying before processing. Neutral, easy coloring formulation. 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: Automotive – Grips, HVAC Flapper Door Seals, Interior, Interior Mat, Weather Seals and Consumer Applications Seals and Gaskets Soft Touch Grips Uses: Automotive Applications Cell Phones Consumer Applications Flexible Grips Seals Processing Method: 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-8211-35-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	38	38	2 mm, 15 sec; ISO 868
	41	41	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	2.293 MPa	332.6 psi	Air at 302°F, 168 hr; ASTM D573
	2.90 MPa	421 psi	Across Flow; ASTM D412
Tensile Stress	1.00 MPa	145 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	287 %	287 %	Air at 302°F, 168 hr; ASTM D573
	350 %	350 %	Across Flow; ASTM D412
Compression Set	10 %	10 %	73°F, 22 hr; ASTM D395
	36 %	36 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-65.0 °C	-85.0 °F	ASTM D746

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	10.0 - 51.7 °C	50.0 - 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	2:1 - 2.5:1	
Screw L/D Ratio	16:1 - 20:1	

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