

ExxonMobil Santoprene® 121-62M100 Thermoplastic Elastomer

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

Material Notes:

A soft, black, UV resistant 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 TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and completely recyclable. Designed for fast, easy injection molding, especially for complex part geometries. Used in sealing applications. Recommended for applications requiring superior part surface appearance. Designed to be injected at lower molding temperatures or at lower injection pressures. 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: Automotive- HVAC Flapper Door Seals, Interior Mat, Seals, Gaskets and Weather Seals. Uses: Automotive Applications Automotive Exterior Trim Automotive Interior Trim Automotive Under the Hood Flexible Grips Lawn and Garden Equipment Power/Other Tools Seals Sporting Goods Thin-walled Parts 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-121-62M100-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	66	66	2 mm, 15 sec; ISO 868
	68	68	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	4.643 MPa	673.4 psi	Air at 302°F, 168 hr; ASTM D573
	5.40 MPa	783 psi	Across Flow; ASTM D412
Tensile Stress	2.10 MPa	305 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	405 %	405 %	Air at 302°F, 168 hr; ASTM D573
	450 %	450 %	Across Flow; ASTM D412
Compression Set	33 %	33 %	158°F, 22 hr; ASTM D395
	44 %	44 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746

Thermal Properties Flammability, UL94	MP Metric	MP English	Comments
	@Thickness 1.10 mm	@Thickness 0.0433 in	

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Rear Barrel Temperature	182 °C	360 °F	
Middle Barrel Temperature	188 °C	370 °F	
Front Barrel Temperature	193 °C	380 °F	
Nozzle Temperature	199 °C	390 °F	
Melt Temperature	204 - 221 °C	400 - 430 °F	Processing
Mold Temperature	10.0 - 51.7 °C	50.0 - 125 °F	Processing
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 hour	3 hour	
Moisture Content	0.080 %	0.080 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	Processing
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	Black	
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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