

ExxonMobil Santoprene® 121-75M100 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. Key Features: Used in glass encapsulation applications. Designed for fast, easy injection molding, especially for complex part geometries. Used in sealing applications. Recommended for applications requiring superior part surface appearance. 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- Interior Mat, Seals, Gaskets and Weather Seals. Uses: Automotive Applications Automotive Interior Trim Automotive Exterior Trim Automotive Under the Hood. 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-121-75M100-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	2 mm, 15 sec; ISO 868
	82	82	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	6.259 MPa	907.8 psi	Air at 302°F, 168 hr; ASTM D573
	7.03 MPa	1020 psi	Across Flow; ASTM D412
Elongation at Break	412.8 %	412.8 %	Air at 302°F, 168 hr; ASTM D573
	480 %	480 %	Across Flow; ASTM D412
Tear Strength	25.9 kN/m	148 pli	73°F, Die C, Across Flow; ASTM D624
Compression Set	40 %	40 %	158°F, 22 hr; ASTM D395
	53 %	53 %	257°F, 70 hr; ASTM D395

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

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	175 - 230 °C Metric	347 - 446 °F English	Comments
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 - 232 °C	400 - 450 °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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