

ExxonMobil Santoprene® 121-58W175 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, and is designed for thin wall or complex profile extrusion applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and completely recyclable. Key Features: Recommended for applications requiring excellent flex fatigue resistance. Excellent ozone resistance. Designed for improved UV resistance. Designed for extruding thin sections with excellent definition (down to 0.33 mm [0.013"] radius). Long runs with minimal build-up of material on screen packs or narrow die sections. EU and China RoHS compliant. Applications: Automotive- Weather Seals Uses: Automotive Applications Automotive Interior Trim 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-121-58W175-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	2 mm, 15 sec; ISO 868
	67	67	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	4.50 MPa	653 psi	Air at 302°F, 168 hr; ASTM D573
	5.00 MPa	725 psi	Across Flow; ASTM D412
Tensile Stress	2.10 MPa	305 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	440 %	440 %	Across Flow; ASTM D412
	475.2 %	475.2 %	Air at 302°F, 168 hr; ASTM D573
Tear Strength	36.1 kN/m	206 pli	73°F, Die C; ASTM D624
Compression Set	18 %	18 %	73°F, 22 hr; ASTM D395
	39 %	39 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 °C	275 °F	
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.7	2.7	1.96 mm; ASTM D150
Dielectric Strength	25.6 kV/mm	650 kV/in	2.03 mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	
Die Temperature	204 °C	400 °F	Extrusion
Melt Temperature	177 - 204 °C	350 - 400 °F	Extrusion
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 hour	3 hour	
Back Pressure	5.00 - 20.0 MPa	725 - 2900 psi	Extrusion

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China