

ExxonMobil Santoprene® 151-70W256 Thermoplastic Vulcanizate - Flame Retardant

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

Material Notes:

Product Description: A soft, black, flame retardant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material has been designed to meet the Underwriter Laboratories (UL) Subjects 6703, UL 6703A and UL 1703 material requirements for both junction boxes and connectors (both enclosure and insulation) for use in photovoltaic systems. The flame retardants used are RoHS compliant and provide UL 94 flammability classifications of V-1 down to a thickness of 1.5 mm and 5VA down to a thickness of 1.8 mm. The material has an elevated Relative Thermal Index (RTI) of 90°C and meets the requirements for suitability for outdoor use with an (f1) rating. 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:** Suitability for outdoor use. EU and China RoHS compliant. UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. **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-151-70W256-Thermoplastic-Vulcanizate-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792 and ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	2 mm; ISO 868
Tensile Strength at Break	4.80 MPa	696 psi	Across Flow; ASTM D412 and ISO 37
Tensile Stress	2.30 MPa @Strain 100 %	334 psi @Strain 100 %	Across Flow; ASTM D412 and ISO 37
Elongation at Break	480 %	480 %	Across Flow; ASTM D412 and ISO 37

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	90.0 °C	194 °F	UL 746
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746
Flammability, UL94	V-1 @Thickness 1.50 - 3.00 mm	V-1 @Thickness 0.0591 - 0.118 in	UL File Number - E80017
	5VA @Thickness 1.80 mm	5VA @Thickness 0.0709 in	
	5VA	5VA	

Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Comments
Oxygen Index	24 %	24 %	ASTM D2863 and ISO 4589-2

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.3 kV/mm	720 kV/in	ASTM D149
	@Thickness 2.03 mm	@Thickness 0.0799 in	

Descriptive Properties	Value	Comments
Inclined Plane Tracking	107 min	UL 746/ASTM D2303
Outdoor Suitability	f1	UL 746C

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