

Santoprene™ 151-70W256

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

A soft, black, flame-retardant thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. This material can meet the material requirements of junction boxes and connectors (housings and insulators) used in photoelectric systems in Underwriter Laboratories (UL) Subject 6703, 6703A, 3730 and 1703 standards. The flame retardants used in the materials comply with RoHS specifications and meet UL 94 flammability classification V-1 (thickness to 1.5mm) and 5VA (thickness to 1.8mm). The relative thermal index (RTI) of the material reaches 90°C and meets the suitability requirements for outdoor use (f1) ratings. The Shanduping TPV brand is a shear rate dependent product that can be processed on conventional thermoplastic injection molding or extrusion molding equipment. This is a polyolefin-based material that can be recycled in the production process.

General Information			
UL YellowCard	E80017-100095499		
Features	Recyclable materials		
Uses	Outdoor application		
Agency Ratings	UL QMFZ2		
	UL QMFZ8		
RoHS Compliance	RoHS compliance		
UL File Number	E80017		
Appearance	Black		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm³	ASTM D792, ISO 1183
Outdoor Suitability	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	75		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	2.30	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	4.80	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	480	%	ASTM D412, ISO 37
Thermal	Nominal Value	Unit	Test Method
RTI Elec	90.0	°C	UL 746
RTI	90.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 2.00 mm)	28	kV/mm	ASTM D149

Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Resistance to Ignition (HVAR)	PLC 6		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 2		UL 746
1.80 mm	PLC 2		UL 746
3.00 mm	PLC 1		UL 746
Inclined-Plane Tracking (2.5 kV)	107	min	ASTM D2303
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-1		UL 94
	V-1		
1.80 mm	5VA		UL 94
	V-1		
3.00 mm	5VA		UL 94
Oxygen Index	24	%	ASTM D2863, ISO 4589-2

Additional Information

如果适用,这是基于扇形浇口注塑成型的平板测试结果.拉伸强度,伸长率和拉伸应力沿垂直流动方向测定 - ISO 1 型,ASTM die C.本产品可能由第三方根据与埃克森美孚公司或其某一关联公司的合同,按照符合 ISO 9001:2008 要求的质量管理体系生产.从埃克森美孚欧洲分支机构直接购买的所有产品都符合 REACH 法规. 对于埃克森美孚未进口至欧洲的产品,用户应自行评估其是否满足 REACH 法规.

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Injection instructions

Santoprene TPV与乙缩醛和PVC不相容.更多关于加工和模具设计的信息,请查阅我们的《注射成型指南》.

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