

Santoprene™ 8211-55B100

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, colorable, special non-hygroscopic thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. It is specially formulated for bonding with ABS, PS, PC, PMMA, ASA, PET and PPO/PS blends, and is suitable for applications requiring hard/soft material combinations. This brand of Sanduping TPV 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	E80017-250565
Features	Recyclable materials
	Adhesiveness
	Good formability
	Good flexibility
	Good coloring
	Good adhesion
	Ozone resistance
	Good appearance
	Excellent appearance
Uses	Kitchen utensils
	Large household appliances and small household appliances
	Electrical appliances
	Active hinge
	Home appliance components
	Frame
	Seals
	Fatigue elimination supplies
	Parts under the hood of a car
	Application in Automobile Field
	Soft handle
	Mobile phone
	Sporting goods
	Consumer goods application field
	Bonding
	Bonding resin
Agency Ratings	UL QMFZ2
	UL QMFZ8

RoHS Compliance	RoHS compliance
UL File Number	E80017
Appearance	Natural color
Forms	Particle
Processing Method	Multiple injection molding Co-extrusion molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	53		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation - Across Flow (Break, 23°C)	600	%	ASTM D412, ISO 37
Compression Set			
125°C, 70 hr ¹	55	%	ASTM D395B
125°C, 70 hr ²	55	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573, ISO 188
100°C, 168 hr	-28	%	ASTM D573, ISO 188
125°C, 168 hr	-61	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air			ASTM D573, ISO 188
100°C, 168 hr	-14	%	ASTM D573, ISO 188
125°C, 168 hr	-70	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air			ASTM D573, ISO 188
Support a, 100°C, 168 hr	-4.0		ASTM D573, ISO 188
Support a, 125°C, 168 hr	8.0		ASTM D573, ISO 188
Change in Tensile Strength			ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	-1.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	1.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 95% ethanol	-17	%	ASTM D471, ISO 1817
23°C, 168 hr, in IRM 903 oil	-85	%	ASTM D471, ISO 1817
23°C, 168 hr, in water	2.0	%	ASTM D471, ISO 1817
Change in Ultimate Elongation			ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	-9.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	-7.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 95% ethanol	-3.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in IRM 903 oil	-68	%	ASTM D471, ISO 1817
23°C, 168 hr, in water	-12	%	ASTM D471, ISO 1817
Change in Durometer Hardness			

Support A, 23°C, 168 hr, in 10% hydrochloric acid	4.0	ASTM D471
Support A, 23°C, 168 hr, in 50% sodium hydroxide	4.0	ASTM D471
Support A, 23°C, 168 hr, in 95% ethanol	2.0	ASTM D471
Support A, 23°C, 168 hr, in IRM 903 oil	-33	ASTM D471
Support A, 23°C, 168 hr, in water	5.0	ASTM D471, ISO 1817
Support A, 23°C, 168 hr, in 10% hydrochloric acid	4.0	ISO 1817
Support A, 23°C, 168 hr, in 50% sodium hydroxide	4.0	ISO 1817
Support A, 23°C, 168 hr, in 95% ethanol	2.0	ISO 1817
Support A, 23°C, 168 hr, in IRM 903 oil	-33	ISO 1817

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.10 mm	HB	UL 94
2.90 mm	HB	UL 94

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.25% 形变时的永久压缩变形.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 I SO 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.

Legal statement

有关详细的产品监管信息,请联系客户服务.未经埃克森美孚化工书面允许,这种产品包括其产品名称,不得在任何医疗应用领域予以使用或

Injection instructions

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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》,《可与B100,ABS,PC和PS粘结的TPV》小册子和《Santoprene TPV 8211-55B100的注射成型》技术文献.

Extrusion 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《挤出成型指南》和《可与B100,ABS,PC和PS粘结的TPV》小册子.

NOTE

1. Type 1
2. Type a

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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