Santoprene™ 291-60B150

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a pigable special thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. It is specially formulated for bonding with PC, ABS, PC/ABS and PMMA, and is suitable for applications requiring a combination of hard/soft materials. This brand of Sanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding or extrusion molding equipment. Can be recycled online.

General Information	
Features	Shock absorption
	Recyclable materials
	Adhesiveness
	Ozone resistance
	Good chemical resistance
	Oil resistance
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
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Multiple injection molding
	Co-extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.06	g/cm³	ASTM D792, ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	65		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain, 23°C)	2.10	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	8.00	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	540	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
23°C [1]	28.0	kN/m	ASTM D624
23°C [2]	28	kN/m	ISO 34-1
Compression Set			
23°C, 22 hr [3]	34	%	ASTM D395B
70°C, 22 hr [4]	62	%	ASTM D395B
23°C, 22 hr [5]	34	%	ISO 815
70°C, 22 hr [6]	62	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (100°C, 168 hr)	0.0	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (100°C, 168 hr)	-11	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air (support a, 100 c, 672 hr)	-2.0		ASTM D573, ISO 188
Change in Mass in Air (100°C, 168 hr)	-1.1	%	ASTM D573
Change in Mass in Air (100°C, 168 hr)	-1.1	%	ISO 188
Change in Volume in Air (100°C, 168 hr)	-1.2	%	ASTM D573
Change in Volume in Air (100°C, 168 hr)	-1.2	%	ISO 188
Change in Tensile Strength			ASTM D471, ISO 1817
23°C, 24 hr, in IRM 903 oil	-4.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% sodium hypochlorite	-16	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	-20	%	ASTM D471, ISO 1817
23°C, 168 hr, in 15% sodium chloride	-18	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	-22	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% ethanol	-65	%	ASTM D471, ISO 1817
23°C, 168 hr, at 90% relative temperature	-11	%	ASTM D471, ISO 1817
23°C, 168 hr, in series detergent	-20	%	ASTM D471, ISO 1817
38°C, 168 hr, at 90% relative temperature	-16	%	ASTM D471, ISO 1817
Change in Ultimate Elongation			ASTM D471, ISO 1817

	-4.0		
	-4.0		
	-4.0		
	-4.0		
23°C, 24 hr, in IRM 903 oil	-4.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% sodium hypochlorite	-4.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	-10	%	ASTM D471, ISO 1817
23°C, 168 hr, in 15% sodium chloride	-6.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	-18	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% ethanol	-66	%	ASTM D471, ISO 1817
23°C, 168 hr, at 90% relative temperature	-10	%	ASTM D471, ISO 1817
23°C, 168 hr, in series detergent	-7.0	%	ASTM D471, ISO 1817
38°C, 168 hr, at 90% relative temperature	-9.0	%	ASTM D471, ISO 1817
Change in Durometer Hardness (Support A, 23°C, 168 hr, in deionized water)	-1.0		ASTM D471, ISO 1817
Change in Mass			ASTM D471
23°C, 168 hr, in 10% sodium hypochlorite	0.60	%	ASTM D471
23°C, 168 hr, in 10% hydrochloric acid	0.40	%	ASTM D471
23°C, 168 hr, in 15% sodium chloride	0.10	%	ASTM D471
23°C, 168 hr, in 50% sodium hydroxide	0.10	%	ASTM D471
23°C, 168 hr, in 50% ethanol	6.5	%	ASTM D471
23°C, 168 hr, in 95% relative temperature	0.0	%	ASTM D471
23°C, 168 hr, in series detergent	0.10	%	ASTM D471
38°C, 168 hr, in 95% relative temperature	0.60	%	ASTM D471
Change in Mass			ISO 1817
23.0°C, 168 hr, in 95% relative temperature	0.0	%	ISO 1817
23.0°C, 168 hr, in 15% sodium chloride	0.10	%	ISO 1817
23.0°C, 168 hr, in series detergent	0.10	%	ISO 1817

23.0°C, 168 hr, in 50% sodium hydroxide	0.10	%	ISO 1817
23.0°C, 168 hr, in 10% hydrochloric acid	0.40	%	ISO 1817
38.0°C, 168 hr, in 95% relative temperature	0.60	%	ISO 1817
23.0°C, 168 hr, in 10% sodium hypochlorite	0.60	%	ISO 1817
23.0°C, 168 hr, in 50% ethanol	6.5	%	ISO 1817
Change in Volume			
23°C, 168 hr, 95% relative humidity	0.0	%	ASTM D471
23°C, 168 hr, in 10% sodium hypochlorite	0.60	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	0.40	%	ASTM D471
23°C, 168 hr, in 15% sodium chloride	0.60	%	ASTM D471
23°C, 168 hr, in 50% sodium hydroxide	0.20	%	ASTM D471
23°C, 168 hr, in 50% ethanol	6.8	%	ASTM D471, ISO 1817
23°C, 168 hr, in series detergent	0.10	%	ASTM D471, ISO 1817
38°C, 168 hr, 95% relative humidity	0.60	%	ASTM D471
23°C, 168 hr, in 10% hydrochloric acid	0.40	%	ISO 1817
23°C, 168 hr, in 15% sodium chloride	0.60	%	ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	0.20	%	ISO 1817
23°C, 168 hr, at 95% relative humidity	0.0	%	ISO 1817
38°C, 168 hr, at 95% relative humidity	0.60	%	ISO 1817

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.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

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有关详细的产品监管信息,请联系客户服务.

Injection instructions

Santoprene TPV与乙缩醛和PVC不相容.更多信息请参见《291-XXB150快速加工参考手册》.

NOTE

1.	C mould
2.	Method B, right-angle specimen (cut)
3.	Type 1
4.	Type 1
5.	Type a
6.	Type a

Recommended distributors for this material

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