Santoprene™ 8221-70

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, colorable, UV-resistant thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. This material has good physical properties and chemical resistance at the same time, and is suitable for a wide range of fields. This brand of Shanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding or blow molding equipment. This is a polyolefin-based material that can be recycled in the production process.

General Information	
UL YellowCard	E80017-250569
Features	Good dimensional stability Low friction coefficient Low hygroscopicity Good UV resistance Recyclable materials Good color stability Good coloring Ozone resistance Good chemical resistance Good weather resistance Low or no water absorption Medium hardness
Uses	Architectural application field Expansion Joint Outdoor application Assembled glass
Agency Ratings	UL QMFZ2 UL QMFZ8
RoHS Compliance	RoHS compliance
UL File Number	E80017
Appearance	Natural color
Forms	Particle
Processing Method	Blow molding Multiple injection molding Extrusion blow molding Injection blowing molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.948	g/cm³	ASTM D792
--	0.950	g/cm³	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)	2.90	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	6.80	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	600	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
23°C [1]	25.0	kN/m	ASTM D624
23°C [2]	25	kN/m	ISO 34-1
Compression Set			
70°C, 22 hr [3]	38	%	ASTM D395B
125°C, 70 hr [4]	58	%	ASTM D395B
70°C, 22 hr [5]	38	%	ISO 815
125°C, 70 hr [6]	58	%	ISO 815
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-62.0	°C	ASTM D746, ISO 812
RTI Elec	100	°C	UL 746
RTI	85.0	°C	UL 746
Electrical	**Nominal Value**		**Test Method**
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.10 mm	HB		UL 94
1.60 mm	HB		UL 94
3.00 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.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	Nominal Value	Unit
Drying Temperature	82.2	°C

Drying Time	3.0	hr
Suggested Max Moisture	0.080	%
Suggested Max Regrind	20	%
Rear Temperature	179 - 196	°C
Middle Temperature	185 - 199	°C
Front Temperature	191 - 204	°C
Nozzle Temperature	191 - 210	°C
Processing (Melt) Temp	199 - 216	°C
Mold Temperature	23.9 - 51.7	°C
Injection Rate	Fast	
Back Pressure	0.345 - 0.689	MPa
Screw Speed	100 - 200	rpm
Clamp Tonnage	4.1 - 6.9	kN/cm^2
Cushion	3.18 - 6.35	mm
Screw L/D Ratio	16.0:1.0 to 20.0:1.0	
Screw Compression Ratio	2.0:1.0 to 2.5:1.0	
Vent Depth	0.025	mm

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》.

Extrusion	Nominal Value	Unit
Melt Temperature	185 - 221	°C
Die Temperature	185 - 221	°C

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

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