

Santoprene™ 8221-60

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	E80017-250568
Features	Good dimensional stability
	Low friction coefficient
	Good UV resistance
	Recyclable materials
	Good coloring
	Ozone resistance
	Good chemical resistance
	Good weather resistance
	Low or no water absorption
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/cm ³	ASTM D792
--	0.950	g/cm ³	ISO 1183
Outdoor Suitability	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	64		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	2.20	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	5.70	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	470	%	ASTM D412, ISO 37
Compression Set			
70°C, 22 hr ¹	32	%	ASTM D395B
125°C, 70 hr ²	60	%	ASTM D395B
70°C, 22 hr ³	32	%	ISO 815
125°C, 70 hr ⁴	60	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-63.0	°C	ASTM D746, ISO 812
RTI Elec	100	°C	UL 746
RTI	85.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 2.00 mm)	31	kV/mm	ASTM D149
Dielectric Constant (23°C, 2.01 mm)	2.30		ASTM D150, IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.10 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.			
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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	177 - 191	°C	
Middle Temperature	179 - 193	°C	
Front Temperature	185 - 199	°C	
Nozzle Temperature	185 - 210	°C	

Processing (Melt) Temp	143 - 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	179 - 216	°C
Die Temperature	177 - 216	°C

NOTE

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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

