

Santoprene™ 8211-45

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, colorable, non-hygroscopic 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 used in fields that are difficult to injection molding. This brand of Shanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding equipment. This is a polyolefin-based material that can be recycled in the production process.

General Information			
UL YellowCard		E80017-250562	
Features	Good dimensional stability		
	Low friction coefficient		
	Recyclable materials		
	Cleanable		
	Good formability		
	Good coloring		
	High liquidity		
	Ozone resistance		
	Good chemical resistance		
	Soft		
	Low or no water absorption		
Uses	Seals		
	Application in Automobile Field		
	Soft handle		
	Mobile phone		
	Consumer goods application field		
Agency Ratings	UL QMFZ2		
	UL QMFZ8		
RoHS Compliance	RoHS compliance		
UL File Number	E80017		
Appearance	Natural color		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			

--	0.928	g/cm ³	ASTM D792
--	0.930	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	49		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	1.50	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	3.60	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	410	%	ASTM D412, ISO 37
Compression Set			
70°C, 22 hr ¹	25	%	ASTM D395B
70°C, 22 hr ²	25	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	-10	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (150°C, 168 hr)	-26	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air (Shore A, 150°C, 168 hr)	2.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-62.0	°C	ASTM D746, ISO 812
RTI Elec	100	°C	UL 746
RTI			UL 746
1.10 mm	90.0	°C	UL 746
3.00 mm	95.0	°C	UL 746
Flammability	Nominal Value		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.不建议用于热油.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	
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》.

NOTE

1. Type 1
2. Type a

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