

Santoprene™ 121-50M100

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, black, 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 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	E80017-250508		
Features	Good dimensional stability		
	Good UV resistance		
	Recyclable materials		
	Good formability		
	High liquidity		
	Ozone resistance		
	Good chemical resistance		
	Fatigue resistance		
	Good weather resistance		
	Excellent appearance		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
	Car interior equipment		
	Car exterior decoration		
	Outdoor application		
Agency Ratings	UL QMFZ2		
	UL QMFZ8		
RoHS Compliance	RoHS compliance		
UL File Number	E80017		
Appearance	Black		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.908	g/cm³	ASTM D792

--	0.910	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	54		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	1.80	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	4.30	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	450	%	ASTM D412, ISO 37
Compression Set			
70°C, 22 hr ¹	30	%	ASTM D395B
125°C, 70 hr ²	41	%	ASTM D395B
70°C, 22 hr ³	30	%	ISO 815
125°C, 70 hr ⁴	41	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	-14	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (150°C, 168 hr)	1.0	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air (Shore A, 150°C, 168 hr)	3.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746, ISO 812
Flammability	Nominal Value		Test Method
Flame Rating (1.10 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	182	°C	
Middle Temperature	188	°C	
Front Temperature	193	°C	
Nozzle Temperature	199	°C	
Processing (Melt) Temp	204 - 221	°C	
Mold Temperature	10.0 - 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

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