Santoprene™ 121-75M100

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	E80017-250510
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			
--	0.918	g/cm³	ASTM D792

--	0.920	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	80		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain, 23°C)	3.50	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	7.00	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	480	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
23°C [1]	26.0	kN/m	ASTM D624
23°C [2]	26	kN/m	ISO 34-1
Compression Set			
70°C, 22 hr [3]	40	%	ASTM D395B
125°C, 70 hr [4]	53	%	ASTM D395B
70°C, 22 hr [5]	40	%	ISO 815
125°C, 70 hr [6]	53	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (150°C, 168 hr)	-11	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (150°C, 168 hr)	-14	%	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	-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.撕裂强度 - DIN 53515,die C(带缺口).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

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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 - 232	°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	
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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