

Santoprene™ 8211-35

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	
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
RoHS Compliance	RoHS compliance
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)	38		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	1.00	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	2.90	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	350	%	ASTM D412, ISO 37
Compression Set			
23°C, 22 hr ¹	10	%	ASTM D395B
125°C, 70 hr ²	36	%	ASTM D395B
23°C, 22 hr ³	10	%	ISO 815
125°C, 70 hr ⁴	36	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	-21	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (150°C, 168 hr)	-18	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air (Shore A, 150°C, 168 hr)	3.0		ASTM D573, ISO 188
Change in Tensile Strength (125°C, 70 hr, in IRM 903 Oil)	-61	%	ASTM D471, ISO 1817
Change in Ultimate Elongation (125°C, 70 hr, in IRM 903 Oil)	-65	%	ASTM D471, ISO 1817
Change in Volume			
125°C, 70 hr, in IRM 903 oil	89	%	ASTM D471
125°C, 70 hr, in IRM 903 oil	89	%	ISO 1817
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-65.0	°C	ASTM D746, ISO 812
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	
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

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| 1. | Type 1 |
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