

Santoprene™ 8281-45MED

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, colorable, special non-hygroscopic thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. It applies to the field of health care. 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	Low extract		
	Radiation disinfection		
	Recyclable materials		
	Good coloring		
	Ozone resistance		
	High pressure heating resistance		
	Good chemical resistance		
	Biocompatibility		
	Low or no water absorption		
	Disinfect with steam		
Uses	Medical/nursing supplies		
Agency Ratings	USP Class VI		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.908	g/cm ³	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)	49		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	1.30	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)	440	%	ASTM D412, ISO 37

Tear Strength - Across Flow			
23°C ¹	12.0	kN/m	ASTM D624
100°C ²	4.00	kN/m	ASTM D624
23°C ³	12	kN/m	ISO 34-1
100°C ⁴	4.0	kN/m	ISO 34-1
Compression Set			
23°C, 168 hr ⁵	12	%	ASTM D395B
23°C, 168 hr ⁶	12	%	ISO 815

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.

NOTE

- | | |
|----|--------------------------------------|
| 1. | C mould |
| 2. | C mould |
| 3. | Method B, right-angle specimen (cut) |
| 4. | Method B, right-angle specimen (cut) |
| 5. | Type 1 |
| 6. | Type a |

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