

Santoprene™ 241-73W236

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, colorable, special thermoplastic vulcanized elastomer (T PV) in the thermoplastic elastomer (TPE) series. It is suitable for the field of pipeline engineering related to drinking water. This brand of Shanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding, extrusion molding, blow molding, thermoforming or vacuum forming equipment. It is a polyolefin-based product and can be completely recycled.

General Information			
Features	Good dimensional stability		
	Low compressive deformability		
	Flexibility at low temperatures		
	Recyclable materials		
	Good heat aging resistance		
	Good coloring		
	Ozone resistance		
	Good chemical resistance		
	Fatigue resistance		
	Copper contact stability		
Uses	Pipe components		
Agency Ratings	NSF 61		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Blow molding		
	Multiple injection molding		
	Co-extrusion molding		
	Extrusion		
	Extrusion blow molding		
	Sheet extrusion molding		
	Thermoforming		
	Profile extrusion molding		
	Vacuum forming		
	Injection blowing molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.968	g/cm ³	ASTM D792

--	0.970	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	79		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	3.60	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	8.80	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	490	%	ASTM D412, ISO 37
Compression Set			
23°C, 168 hr ¹	25	%	ASTM D395B
100°C, 168 hr ²	57	%	ASTM D395B
23°C, 168 hr ³	25	%	ISO 815
100°C, 168 hr ⁴	57	%	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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有关详细的产品监管信息,请联系客户服务.未经埃克森美孚化工书面允许,这种产品包括其产品名称,不得在任何医疗应用领域予以使用或			
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	177	°C	
Middle Temperature	182	°C	
Front Temperature	188	°C	
Nozzle Temperature	193 - 227	°C	
Processing (Melt) Temp	199 - 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》小册子和《Santoprene 橡胶的抗铜催化氧化侵蚀性》技术文献.			

Extrusion	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	3.0	hr
Melt Temperature	202	°C
Die Temperature	204	°C
Back Pressure	5.00 - 20.0	MPa

Extrusion instructions

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NOTE

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