

Santoprene™ 241-55

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 pipeline engineering field related to drinking water, and also suitable for food processing equipment. This brand of Sanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding or extrusion molding equipment. This is a polyolefin-based material that can be recycled in the production process.

General Information	
UL YellowCard	E80017-250532
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
Uses	Pipe components
Agency Ratings	NSF 51
	NSF 61
	UL QMFZ2
	UL QMFZ8
RoHS Compliance	RoHS compliance
UL File Number	E80017
Appearance	Natural color
Forms	Particle
Processing Method	Multiple injection molding
	Co-extrusion molding
	Extrusion
	Sheet extrusion molding
	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	--	g/cm ³	ASTM D792

--	0.960	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	59		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	1.70	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	4.50	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	450	%	ASTM D412, ISO 37
Thermal	Nominal Value	Unit	Test Method
RTI Elec	100	°C	UL 746
RTI	90.0	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Resistance to Ignition (HVAR)	PLC 6		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	HB		UL 94
1.50 mm	HB		UL 94
3.00 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.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	177	°C	
Middle Temperature	182	°C	
Front Temperature	182	°C	
Nozzle Temperature	188 - 221	°C	
Processing (Melt) Temp	193 - 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》.

Extrusion	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	3.0	hr
Melt Temperature	196	°C
Die Temperature	199	°C
Back Pressure	5.00 - 20.0	MPa

Extrusion 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《挤出成型指南》.

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