

Santoprene™ 201-55W255

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, colorable thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. This material is designed for use in household washing machines and dishwashers and contains a stable system to prevent catalytic degradation of copper and other metals. 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	
Features	Low compressive deformability
	Recyclable materials
	Ozone resistance
	Copper contact stability
Uses	Washer
	Home appliance components
	Seals
RoHS Compliance	RoHS compliance
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			
--	0.958	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)	60		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	1.90	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	5.10	MPa	ASTM D412, ISO 37

Tensile Elongation - Across Flow (Break, 23°C)	450	%	ASTM D412, ISO 37
Compression Set			
23°C, 22 hr ¹	16	%	ASTM D395B
70°C, 22 hr ²	35	%	ASTM D395B
100°C, 22 hr ³	42	%	ASTM D395B
100°C, 300 hr ⁴	47	%	ASTM D395B
23°C, 22 hr ⁵	16	%	ISO 815
70°C, 22 hr ⁶	35	%	ISO 815
100°C, 22 hr ⁷	42	%	ISO 815
100°C, 300 hr ⁸	47	%	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 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 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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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