# Santoprene™ 121-55W241

## Thermoplastic Vulcanizate

## ExxonMobil Chemical

## Message:

It is a soft, black, UV-resistant 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 UV resistance		
	Recyclable materials		
	Good tear strength		
	Ozone resistance		
	Good weather resistance		
Uses	Application in Automobile Field		
	Car exterior decoration		
	Outdoor application		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Specific Gravity	0.918	g/cm³	ASTM D792
<u> </u>	0.918 0.920	g/cm³	
			ASTM D792
Hardness  Durometer Hardness (Shaw A, 15 seconds,	0.920 Nominal Value	g/cm³	ASTM D792 ISO 1183 Test Method
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	0.920 Nominal Value	g/cm³ Unit	ASTM D792 ISO 1183 Test Method ISO 868
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)  Elastomers	0.920 Nominal Value	g/cm³	ASTM D792 ISO 1183 Test Method
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)  Elastomers  Tensile Stress - Across Flow (100% Strain,	0.920 Nominal Value	g/cm³ Unit	ASTM D792 ISO 1183 Test Method ISO 868
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)  Elastomers  Tensile Stress - Across Flow (100% Strain, 23°C)	0.920  Nominal Value  59  Nominal Value	g/cm³ Unit Unit	ASTM D792 ISO 1183 Test Method ISO 868 Test Method
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)  Elastomers  Tensile Stress - Across Flow (100% Strain,	0.920  Nominal Value  59  Nominal Value	g/cm³ Unit Unit	ASTM D792 ISO 1183 Test Method ISO 868 Test Method
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)  Elastomers  Tensile Stress - Across Flow (100% Strain, 23°C)  Tensile Strength - Across Flow (Break, 23°C)  Tensile Elongation - Across Flow (Break,	0.920 Nominal Value  59 Nominal Value  2.00  4.80	g/cm³ Unit Unit MPa MPa	ASTM D792 ISO 1183 Test Method ISO 868 Test Method ASTM D412, ISO 37 ASTM D412, ISO 37
Hardness  Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)  Elastomers  Tensile Stress - Across Flow (100% Strain, 23°C)  Tensile Strength - Across Flow (Break, 23°C)  Tensile Elongation - Across Flow (Break, 23°C)	0.920 Nominal Value  59 Nominal Value  2.00	g/cm³ Unit Unit MPa	ASTM D792 ISO 1183 Test Method ISO 868 Test Method ASTM D412, ISO 37
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125°C, 70 hr <sup>2</sup>	56	%	ASTM D395B
23°C, 70 hr <sup>3</sup>	29	%	ISO 815
125°C, 70 hr <sup>4</sup>	56	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-63.0	°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 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	
1.	Type 1
2.	Type 1
3.	Туре а
4.	Туре а

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