

Geolast™ 701-80W183

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, black, oil-resistant thermoplastic vulcanized elastomer (T PV) in the thermoplastic elastomer (TPE) series. This material has good air resistance and oil resistance, and is suitable for a wide range of fields. This brand of Geolast TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding, extrusion molding or blow molding equipment. This is a polyolefin-based material that can be recycled in the production process.

General Information			
Features	Good dimensional stability		
	Flexibility at low temperatures		
	Recyclable materials		
	Ozone resistance		
	Oil resistance		
	Grease resistance		
Uses	Industrial application		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Blow molding		
	Multiple injection molding		
	Co-extrusion molding		
	Extrusion		
	Extrusion blow molding		
	Sheet extrusion molding		
	Profile extrusion molding		
	Injection blowing molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm)	83		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	5.20	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)	290	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
23°C ¹	30.0	kN/m	ASTM D624
23°C ²	30	kN/m	ISO 34-1
Compression Set			
70°C, 22 hr ³	30	%	ASTM D395B
125°C, 70 hr ⁴	47	%	ASTM D395B
70°C, 22 hr ⁵	30	%	ISO 815
125°C, 70 hr ⁶	47	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 168 hr)	6.0	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (125°C, 168 hr)	-37	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air (Shore A, 125°C, 168 hr)	2.0		ASTM D573, ISO 188
Change in Tensile Strength (125°C, 70 hr, in IRM 903 Oil)	-38	%	ASTM D471, ISO 1817
Change in Ultimate Elongation (125°C, 70 hr, in IRM 903 Oil)	-48	%	ASTM D471, ISO 1817
Change in Volume			
125°C, 70 hr, in IRM 903 oil	4.0	%	ASTM D471
125°C, 70 hr, in IRM 903 oil	4.0	%	ISO 1817
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-32.0	°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.本产品可能由第三方根据与埃克森美孚公司或其某一关联公司的合同,按照符合 I SO 9001:2008 要求的质量管理体系生产.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.			
Legal statement			
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Injection instructions			
Geolast 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			
Geolast 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》.			
NOTE			
1.	C mould		
2.	Method B, right-angle specimen (cut)		
3.	Type 1		
4.	Type 1		
5.	Type a		

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