

Trexprene® A70SCI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A70SCI is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV) which contains a lubricant/slip package for lower co-efficient of friction and anti-wear properties versus normal TPV's. This compound is formulated in pre-color form primarily for under-hood or interior applications. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

General Information	
Additive	Heat Stabilizer Lubricant Slip
Features	Good Wear Resistance Heat Stabilized Low Friction Lubricated Slip
Uses	Automotive Interior Parts Automotive Under the Hood
Appearance	Unspecified Color
Forms	Pellets
Processing Method	Blow Molding Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.940 to 1.04	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	64 to 74		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Across Flow : 100% Strain	> 2.30	MPa	
Flow : 100% Strain	> 3.90	MPa	
Tensile Stress ²			ISO 37
Across Flow : Break	> 5.70	MPa	
Flow : Break	> 4.50	MPa	
Tensile Elongation ³			ISO 37

Across Flow : Break	> 720	%	
Flow : Break	> 250	%	
Tear Strength ⁴			ISO 34-1
Across Flow	> 27	kN/m	
Flow	> 24	kN/m	
Compression Set			
70°C, 22 hr	< 46	%	ASTM D395B
125°C, 70 hr	< 26	%	ASTM D395B
70°C, 22 hr ⁵	< 46	%	ISO 815
125°C, 70 hr ⁶	< 26	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 1000 hr)	21	%	ISO 188
Change in Tensile Strain at Break in Air (125°C, 1000 hr)	26	%	ISO 188
Change in Shore Hardness in Air (Shore A, 125°C, 1000 hr)	0.70		ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	< -50.0	°C	ASTM D746
Type B	< -50.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 20	mm/min	ISO 3795
Additional Information	Nominal Value		Test Method
Color Fastness - to Light ⁷	AATCC Rating > 3		
Ozone Resistance ⁸ (40°C)	Rating 0		ISO 1431-1
NOTE			
1.	Type 1, 500 mm/min		
2.	Type 1, 500 mm/min		
3.	Type 1, 500 mm/min		
4.	Method Ba, Angle (Unnicked), 500 mm/min		
5.	Type A		
6.	Type A		
7.	Xenon per SAE J2412, 1240.8 kJ/m ²		
8.	100 pphm, Method A		

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Recommended distributors for this material

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

