

Trexprene® A70BI-HF

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A70BI-HF is a heat stabilized and UV Stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This high flow, black compound is intended primarily for injection molding applications where longer flow distances and good surface appearance is needed. The material is primarily for under the hood and interior applications. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

General Information	
Additive	Heat Stabilizer
	UV Stabilizer
Features	Good Surface Finish
	Good UV Resistance
	Heat Stabilized
	High Flow
Uses	Automotive Interior Parts
	Automotive Under the Hood
Appearance	Black
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.910 to 0.990	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	70 to 78		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Across Flow : 100% Strain	2.80	MPa	
Flow : 100% Strain	3.60	MPa	
Tensile Stress ²			ISO 37
Across Flow : Break	5.50	MPa	
Flow : Break	5.70	MPa	
Tensile Elongation ³			ISO 37
Across Flow : Break	620	%	
Flow : Break	510	%	

Tear Strength ⁴			ISO 34-1
Across Flow	27	kN/m	
Flow	27	kN/m	
Compression Set			
70°C, 24 hr	33	%	ASTM D395B
70°C, 24 hr ⁵	33	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 1000 hr)	-1.0	%	ISO 188
Change in Tensile Strain at Break in Air (110°C, 1000 hr)	-10	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-53.0	°C	ASTM D746
Type B	-53.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	19	mm/min	ISO 3795
Fogging - Dry Fog	86	%	SAE J1756
Color Fastness			
to Burnt Gas, AATCC Rating : 60°C ⁶	> 4.00		
to Burnt Gas, Change in Color : 60°C ⁷	Delta E < 3		
to Burnt Gas, Yellowness Index : 60°C ⁸	< 2.00	YI	
to Light ⁹	Delta E < 3		
Odor Rating ¹⁰	> 7.00		
Ozone Resistance (40°C) ¹¹	0 Rating		ISO 1431-1
Weatherability			
Arizona ¹²	Delta E < 3		
Florida ¹³	Delta E < 3		SAE J1976
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.	ISO 105-G02, AATCC TM 23, 168 h		
7.	ISO 105-G02, AATCC TM 23, 168 h		
8.	ISO 105-G02, AATCC TM 23, 168 h		
9.	SAE J2412, ISO 105-B06, Cond. 5, 1,240.8 kJ/m ²		
10.	GMW3205 Code B		
11.	100 pphm, Method A		
12.	105,000 TNR Langley's exposure per GMW3417 L1, F2, G1, T5		

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