

Trexprene® A64BI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A64BI is a black; heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This compound is primarily intended for under-hood and interior applications and can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

General Information	
Additive	Heat Stabilizer
Features	Heat Stabilized
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	0.870 to 0.950	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	60 to 68		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, 24 hr	31	%	ASTM D395B
70°C, 24 hr ⁵	31	%	ISO 815
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air (110°C, 1000 hr)	-2.0	%	ISO 188
Change in Tensile Strain at Break in Air (110°C, 1000 hr)	-7.0	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-56.0	°C	ASTM D746
Type B	-56.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Fogging - Dry Fog	87	%	SAE J1756
Color Fastness - to Light ⁶	Delta E < 3		
Odor Rating ⁷	> 7.00		
Ozone Resistance (40°C) ⁸	0 Rating		ISO 1431-1
Weatherability			
Arizona ⁹	Delta E < 3		
Florida ¹⁰	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.	SAE J2412, ISO 105-B06, Cond. 5, 1,240.8 kJ/m ²		
7.	GMW3205 Code B		
8.	100 pphm, Method A		
9.	105,000 TNR Langley's exposure per GMW3417 L1, F2, G1, T5		
10.	2 years exposure, Procedure A		

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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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