

Trexprene® A55NI-HF

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A55NI-HF is a natural heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This material can be processed using Extrusion, Injection, Blow Molding equipment, or other melt processing.

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	0.940 to 1.00	g/cm ³	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	52 to 58		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Across Flow : 100% Strain	1.80	MPa	
Flow : 100% Strain	2.20	MPa	
Tensile Stress ²			ISO 37
Across Flow : Break	4.80	MPa	
Flow : Break	2.80	MPa	
Tensile Elongation ³			ISO 37
Across Flow : Break	400	%	
Flow : Break	250	%	
Tear Strength ⁴			ISO 34-1
Across Flow	18	kN/m	
Flow	15	kN/m	
Compression Set			
70°C, 24 hr	30	%	ASTM D395B
125°C, 70 hr	40	%	ASTM D395B
70°C, 24 hr ⁵	30	%	ISO 815
125°C, 70 hr ⁶	40	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 1000 hr)	-5.0	%	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			
--	-56.0	°C	ASTM D746
Type B	-56.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	19	mm/min	ISO 3795
Fogging - Dry Fog	82	%	SAE J1756
Color Fastness - to Light ⁷	Delta E < 3.0		
Odor Rating ⁸	> 7.00		
Ozone Resistance ⁹ (40°C)	0 Rating		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.	SAE J2412, ISO 105-B06, Cond. 5, 1,240.8 kJ/m ²		
8.	GMW3205 Code B		
9.	100 pphm, Method A		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

