

Trexprene® A55NI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A55NI is a heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This Natural compound is primarily intended for interior applications can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

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

Physical	Nominal Value	Unit	Test Method
Density	0.900 to 0.980	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	52 to 60		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Across Flow : 100% Strain	1.80	MPa	
Flow : 100% Strain	3.40	MPa	
Tensile Stress ²			ISO 37
Across Flow : Break	4.80	MPa	
Flow : Break	3.70	MPa	
Tensile Elongation ³			ISO 37
Across Flow : Break	630	%	
Flow : Break	210	%	
Tear Strength ⁴			ISO 34-1
Across Flow	24	kN/m	
Flow	19	kN/m	
Compression Set			
70°C, 24 hr	24	%	ASTM D395B
70°C, 24 hr ⁵	24	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 1000 hr)	4.1	%	ISO 188
Change in Tensile Strain at Break in Air (110°C, 1000 hr)	1.1	%	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	83	%	SAE J1756
Accelerated Weathering Duration ⁶	AATCC > 4		
Color Fastness			
to Burnt Gas, AATCC Rating : 60°C ⁷	> 4.00		
to Burnt Gas, Change in Color : 60°C ⁸	Delta E < 3		
to Burnt Gas, Yellowness Index : 60°C ⁹	< 2.00	YI	
to Light ¹⁰	Delta E < 3		
Odor Rating ¹¹	> 7.00		
Ozone Resistance (40°C) ¹²	0 Rating		ISO 1431-1
Weatherability			
Arizona ¹³	Delta E < 3		
Florida ¹⁴	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.	Filtered Xenon per FLTM BO 116-01, 2481.6 kJ/m ²		
7.	ISO 105-G02, AATCC TM 23, 168 h		
8.	ISO 105-G02, AATCC TM 23, 168 h		
9.	ISO 105-G02, AATCC TM 23, 168 h		
10.	SAE J2412, ISO 105-B06, Cond. 5, 1,240.8 kJ/m ²		
11.	GMW3205 Code B		
12.	100 pphm, Method A		
13.	105,000 TNR Langleys exposure per GMW3417 L1, F2, G1, T5		
14.	2 years exposure, Procedure A		

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