

Trexprene® A45NI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A45NI is a heat & UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This Natural compound is primarily intended for interior applications and can be processed using extrusion, injection, 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	0.920 to 0.980	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	41 to 47		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Wear Resistance ¹	No appreciable loss of grain, texture or color		ASTM D3844
Change in Tensile Properties - Stress at 100% Elongation in Air, 1000 hrs (135°C)	-12 to 12	%	ISO 188
Color Fastness - to Light ²	Delta E < 3.0		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ³ (100% Strain)	1.30	MPa	ISO 37
Tensile Stress - Across Flow ⁴ (Yield)	3.20	MPa	ISO 37
Tensile Elongation - Across Flow ⁵ (Break)	430	%	ISO 37
Tear Strength - Across Flow ⁶	19	kN/m	ISO 34-1
Compression Set			
70°C, 22 hr	30	%	ASTM D395B
125°C, 70 hr	20	%	ASTM D395B
70°C, 22 hr ⁷	30	%	ISO 815
125°C, 70 hr ⁸	20	%	ISO 815
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air (135°C, 1000 hr)	-20 to 10	%	ISO 188
Change in Tensile Strain at Break in Air (135°C, 1000 hr)	-25 to 10	%	ISO 188
Change in Shore Hardness in Air (Shore A, 135°C, 1000 hr)	-3.0 to 3.0		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
Burning Rate	15	mm/min	ISO 3795
NOTE			
1.	100 cycles, CS10 Wheel, 500 g load		
2.	SAE J2412, 1240.8 kJ/m ²		
3.	Type 1, 500 mm/min		
4.	Type 1, 500 mm/min		
5.	Type 1, 500 mm/min		
6.	Method Ba, Angle (Unnicked), 500 mm/min		
7.	Type A		
8.	Type A		

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