

Trexprene® A80CI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A80CI is a pre-colored, heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This compound is primarily intended for interior automotive applications and 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
Uses	Automotive Interior Parts
Appearance	Unspecified Color
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.930 to 0.970	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	76 to 84		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Across Flow : 100% Strain	4.00	MPa	
Flow : 100% Strain	5.70	MPa	
Tensile Stress ²			ISO 37
Across Flow : Break	9.30	MPa	
Flow : Break	8.30	MPa	
Tensile Elongation ³			ISO 37
Across Flow : Break	750	%	
Flow : Break	480	%	
Tear Strength ⁴			ISO 34-1
Across Flow	37	kN/m	
Flow	38	kN/m	
Compression Set			
70°C, 24 hr	42	%	ASTM D395B

125°C, 70 hr	56	%	ASTM D395B
70°C, 24 hr ⁵	42	%	ISO 815
125°C, 70 hr ⁶	56	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 1000 hr)	-3.0	%	ISO 188
Change in Tensile Strain at Break in Air (110°C, 1000 hr)	-12	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-54.0	°C	ASTM D746
Type B	-54.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	20	mm/min	ISO 3795
Fogging - Dry Fog	87	%	SAE J1756
Color Fastness - to Light ⁷	Delta E < 3		
Odor Rating ⁸	> 7.00		
Ozone Resistance (40°C) ⁹	0 Rating		ISO 1431-1
Weatherability			
Arizona ¹⁰	Delta E < 3		
Florida ¹¹	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.	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		
10.	105,000 TNR Langleys exposure per GMW3417 L1, F2, G1, T5		
11.	2 years exposure, Procedure A		

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