

Trexprene® A80NU

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A80NU is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This Natural compound is intended primarily for underhood applications such as mats, seals, gaskets, air ducts, CVJ boots, covers, grommets or other parts where softness and conformity are needed. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

General Information	
Additive	Heat Stabilizer
Features	Heat Stabilized
	Soft
Uses	Automotive Under the Hood
	Constant Velocity Joint Boots
	Gaskets
	Grommets
	Protective Coverings
	Seals
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			ISO 868
Shore A	80 to 86		
Shore A, 15 sec	77 to 83		
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, 22 hr	43	%	ASTM D395B
125°C, 70 hr	57	%	ASTM D395B
70°C, 22 hr ⁵	43	%	ISO 815
125°C, 70 hr ⁶	57	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ISO 188
135°C, 1000 hr	-2.0	%	
150°C, 168 hr	-7.4	%	
Change in Tensile Strain at Break in Air			ISO 188
135°C, 1000 hr	-12	%	
150°C, 168 hr	-15	%	
Change in Tensile Stress (125°C, 70 hr, in IRM 903 Oil)	-37	%	ISO 1817
Change in Tensile Strain at Break (125°C, 70 hr, in IRM 903 Oil)	-57	%	ISO 1817
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	78	%	ISO 1817
Change in Tear Strength - 70 hrs, in IRM 903 Oil (125°C)	-58	%	ISO 1817
Change in Tensile Properties			
Stress at 100% Elongation in Air, 168 hrs : 150°C	12	%	ISO 188
Stress at 100% Elongation in IRM 903 Oil, 70 hrs : 125°C	-8.0	%	ISO 1817
Ozone Resistance (40°C) ⁷	0 Rating		ISO 1431-1
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-59.0	°C	ASTM D746
Type B	-59.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	26	mm/min	ISO 3795
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		

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