

Trexprene® A55BW

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A55BW is a heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV) and is primarily intended for Exterior applications. This material can be processed using Extrusion, Injection, or Blow Molding equipment.

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910 to 0.990	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 - Across Flow ¹ (100% Strain)	1.80	MPa	ISO 37
Tensile Stress - Across Flow ² (Yield)	5.50	MPa	ISO 37
Tensile Elongation - Across Flow ³ (Break)	590	%	ISO 37
Tear Strength - Across Flow ⁴	27	kN/m	ISO 34-1
Compression Set			
125°C, 70 hr	39	%	ASTM D395B
125°C, 70 hr ⁵	39	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 1000 hr)	5.7	%	ISO 188
Change in Tensile Strain at Break in Air (135°C, 1000 hr)	-0.90	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-56.0	°C	ASTM D746
Type B	-56.0	°C	ISO 812
Additional Information	Nominal Value	Test Method	

Accelerated Weathering Duration ⁶	Delta E < 3	SAE J2527
Ozone Resistance (40°C) ⁷	0 Rating	ISO 1431-1
Weatherability ⁸		SAE J1976
Arizona	Delta E < 3	
Florida	Delta E < 3	

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.	Extended UV Filters, 2500 kJ/m ²	
7.	100 pphm, Method A	
8.	2 years exposure, Procedure A	

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