

Trexprene® A55SCI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A55SCI is a heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This grade also contains a "Slip Additive" for improved scratch/mar resistance and anti-wear properties. This material is available as a custom pre-colored compound and is intended primarily for interior trim applications. This compound can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

General Information			
Additive	Heat Stabilizer		
	Slip		
	UV Stabilizer		
Features	Good UV Resistance		
	Good Wear Resistance		
	Heat Stabilized		
	High Scratch Resistance		
	Slip		
Uses	Automotive Interior Trim		
Appearance	Unspecified Color		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910 to 0.970	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	62 to 68		
Shore A, 5 sec	59 to 65		
Shore A, 15 sec	55 to 61		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Across Flow : 100% Strain	1.90	MPa	
Flow : 100% Strain	3.50	MPa	
Tensile Stress ²			ISO 37
Across Flow : Yield	4.90	MPa	
Flow : Yield	4.20	MPa	

Tensile Elongation ³			ISO 37
Across Flow : Break	560	%	
Flow : Break	250	%	
Tear Strength ⁴			ISO 34-1
Across Flow	23	kN/m	
Flow	19	kN/m	
Compression Set			
125°C, 70 hr	44	%	ASTM D395B
125°C, 70 hr ⁵	44	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 1000 hr)	17	%	ISO 188
Change in Tensile Strain at Break in Air (125°C, 1000 hr)	-20	%	ISO 188
Change in Shore Hardness in Air (Shore A, 125°C, 1000 hr)	3.0		ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-50.0	°C	ASTM D746
Type B	-50.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	19	mm/min	ISO 3795
Additional Information	Nominal Value		Test Method
Accelerated Weathering Duration ⁶	AATCC > 4		
Ozone Resistance ⁷ (40°C)	0 Rating		ISO 1431-1
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.	100 pphm, Method A		

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