

Trexprene® A40CW

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® A40CW is a UV, heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This pre-colored compound is intended primarily for applications needing good compression set properties, excellent aesthetics and UV characteristics. This material 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
Appearance	Unspecified Color
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.880 to 0.940	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	38 to 44		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ¹ (100% Strain)	1.10	MPa	ISO 37
Tensile Stress - Across Flow ² (Yield)	3.00	MPa	ISO 37
Tensile Elongation - Across Flow ³ (Break)	300	%	ISO 37
Tear Strength - Across Flow ⁴	12	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 ⁵	30	%	ISO 815
125°C, 70 hr ⁶	20	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ISO 188
135°C, 1000 hr	-25 to 10	%	
150°C, 168 hr	-20 to 10	%	
Change in Tensile Strain at Break in Air			ISO 188
135°C, 1000 hr	-30 to 10	%	

150°C, 168 hr	-25 to 10	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 135°C, 1000 hr	-5.0 to 5.0		
Shore A, 150°C, 168 hr	-3.0 to 3.0		
Change in Tensile Properties			ISO 188
Stress at 100% Elongation in Air, 1000 hrs : 135°C	-20 to 20	%	
Stress at 100% Elongation in Air, 168 hrs : 150°C	-20 to 20	%	
Ozone Resistance (40°C) ⁷	0 Rating		ISO 1431-1
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-56.0	°C	ASTM D746
Type B	-56.0	°C	ISO 812
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.	100 pphm, Method A		

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