

Trexprene® D50CI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® D50CI 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	0.900 to 0.960	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 5 sec)	46 to 54		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ¹ (100% Strain)	10.0	MPa	ISO 37
Tensile Stress - Across Flow ² (Break)	14.4	MPa	ISO 37
Tensile Elongation - Across Flow ³ (Break)	500	%	ISO 37
Tear Strength - Across Flow ⁴	100	kN/m	ISO 34-1
Compression Set			
70°C, 24 hr	70	%	ASTM D395B
70°C, 24 hr ⁵	70	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 1000 hr)	-5.0	%	ISO 188
Change in Tensile Strain at Break in Air (110°C, 1000 hr)	-15	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			

--	-30.0	°C	ASTM D746
Type B	-30.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	38	mm/min	ISO 3795
Fogging - Dry Fog	78	%	SAE J1756
Color Fastness - to Light ⁶	Delta E < 3		
Odor Rating ⁷	> 7.00		
Ozone Resistance (40°C) ⁸	0 Rating		ISO 1431-1
Weatherability			
Arizona ⁹	Delta E < 3		
Florida ¹⁰	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. SAE J2412, ISO 105-B06, Cond. 5, 1,240.8 kJ/m²
7. GMW3205 Code B
8. 100 pphm, Method A
9. 105,000 TNR Langley's exposure per GMW3417 L1, F2, G1, T5
10. 2 years exposure, Procedure A

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