

Trexprene® D50BW

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPENE ® D50BW 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
Uses	Automotive Exterior Parts
Forms	Pellets
Processing Method	Blow Molding Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.920 to 0.980	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	48 to 54		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ¹ (100% Strain)	13.9	MPa	ISO 37
Tensile Stress - Across Flow ² (Yield)	17.8	MPa	ISO 37
Tensile Elongation - Across Flow ³ (Break)	750	%	ISO 37
Tear Strength - Across Flow ⁴	110	kN/m	ISO 34-1
Compression Set			
70°C, 24 hr	63	%	ASTM D395B
70°C, 24 hr ⁵	63	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 1000 hr)	13	%	ISO 188
Change in Tensile Strain at Break in Air (135°C, 1000 hr)	-13	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-30.0	°C	ASTM D746
Type B	-30.0	°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

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|----|---|
| 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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