

Product Data Sheet

TREXPENE® D50CI

PP/EPDM Based Vulcanized TPR

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.

Property	Test Method	Unit	Typical Values
Hardness	ISO 868	Shore D (5 second delay)	50±4
Density	ISO 1183	g/cm ³	0.93±0.03
Tensile Stress at Break, perpendicular to flow	ISO 37, Type 1, 500mm/min	MPa	14.4
Tensile Stress at 100%, perpendicular to flow	ISO 37, Type 1, 500mm/min	MPa	10.0
Ultimate Elongation, perpendicular to flow	ISO 37, Type 1, 500mm/min	%	500
Tear Strength, perpendicular to flow	ISO 34-1, Method B, 500 mm/min	N/mm	100.0
Compression Set at 70°C/24hrs	ASTM D395-B, ISO 815-A	%	70.0
Brittle Temperature	ASTM D746, ISO 812B	°C	-30
Long Term Heat Aging Performance	1000 h @ 110°C followed by ISO 37	% Retention Tensile % Retention Elongation	95 85
Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Fogging Number, Photometric	SAE J1756, GMW3236	% Reflectance	78.0 Dry Fog
Odor	GMW3205 Code B	Rating	≥ 7
Colorfastness to Light	SAE J2412, ISO 105-B06, Cond. 5 I, 240.8 kJ/m ²	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects

Natural Weathering, Arizona	105,000 TNR Langley's exposure per GMW3417 L1, F2, G1, T5	Change in Color Visual Defects	$\Delta E < 3.0$ No Objectionable defects
Natural Weathering, Florida	2 years exposure per SAE J1976, Procedure A	Change in Color Visual Defects	$\Delta E < 3.0$ No Objectionable defects
Flammability / Burn rate	FMVSS 302, GMW3232 ISO 3795	mm/min	38.2