

Product Data Sheet

TREXPENE® A64BI

PP/EPDM Based Vulcanized TPR

Product Description: TREXPENE® A64BI is a black; heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This compound is primarily intended for under-hood and interior 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 A (15 second delay)	64±4
Density	ISO 1183	g/cm ³	0.91±0.04
Tensile Stress at Break	ISO 37, Type 1, 500mm/min	MPa ⊥ //	5.7 4.5
Tensile Stress at 100%,	ISO 37, Type 1, 500mm/min	MPa ⊥ //	2.3 3.9
Ultimate Elongation	ISO 37, Type 1, 500mm/min	% ⊥ //	720 250
Tear Strength	ISO 34-1, Method B, 500 mm/min	N/mm ⊥ //	27.4 23.8
Compression Set at 70°C/24hrs	ASTM D395-B, ISO 815-A	%	31.2
Brittle Temperature	ASTM D746, ISO 812B	°C	-56
Long Term Heat Aging Performance	1000 h @ 110°C followed by ISO 37	% Retention Tensile % Retention Elongation	98.0 93.0
Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Fogging Number, Photometric	SAE J1756, GMW3236	% Reflectance	87.4 Dry Fog
Odor	GMW3205 Code B	Rating	≥ 7
Colorfastness to Light	SAE J2412, ISO 105-B06, Cond. 5 1,240.8 kJ/m ²	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects

Natural Weathering, Arizona	105,000 TNR Langleys 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