

Product Data Sheet
TREXPENE® A74CI

PP/EPDM Based Vulcanized TPR

Product Description: TREXPENE® A74CI 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 A (15 second delay)	74±4
Density	ISO 1183	g/cm ³	0.95±0.04
Tensile Stress at Break	ISO 37, Type 1, 500mm/min	Minimum MPa ⊥ //	7.7 6.2
Tensile Stress at 100%,	ISO 37, Type 1, 500mm/min	Minimum MPa ⊥ //	3.1 5.8
Ultimate Elongation	ISO 37, Type 1, 500mm/min	Minimum % ⊥ //	720 210
Tear Strength	ISO 34-1, Method B, 500 mm/min	Minimum kN/m ⊥ //	32.3 30.3
Compression Set at 70°C/24hrs	ASTM D395-B, ISO 815-A	Maximum %	33.2
Brittle Temperature	ASTM D746, ISO 812B	°C Maximum	-56
Long Term Heat Aging Performance	1000 h @ 110°C followed by ISO 37	% Retention Tensile % Retention Elongation	92 90
Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Fogging Number, Photometric	SAE J1756, GMW3236	% Reflectance	90.3 Dry Fog
Odor	GMW3205 Code B	Rating	≥ 7
Soiling & Cleanability	FLTM BN 112-08	AATCC Rating	> 4
Cleaning Agent Resistance	FLTM BN 107-01, 10 Cycles	AATCC Rating	> 4

Suntan Lotion & Insect Repellant Resistance	DVM-0036-MA, DVM-0039-MA	AATCC Rating	> 3
Colorfastness to Light	SAE J2412, ISO 105-B06, Cond. 5 1,240.8 kJ/m ²	Change in Color Visual Defects	$\Delta E < 3.0$ 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. maximum	20.0