

Product Data Sheet

TREXPENE® A80SCI

PP/EPDM Based Vulcanized TPR

Product Description: TREXPENE® A80SCI is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV) which contains a lubricant/slip package for lower co-efficient of friction and anti-wear properties versus normal TPV's. This compound is formulated in pre-color form primarily for under-hood or interior applications. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques. 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)	80±4
Density	ISO 1183	g/cm ³	0.95±0.02
Tensile Stress at Break	ISO 37, Type 1, 500mm/min	MPa ⊥ //	9.3 8.3
Tensile Stress at 100%,	ISO 37, Type 1, 500mm/min	MPa ⊥ //	4.0 5.7
Ultimate Elongation	ISO 37, Type 1, 500mm/min	% ⊥ //	750 480
Tear Strength	ISO 34-1, Method B, 500 mm/min	N/mm ⊥ //	36.8 37.8
Compression Set at 70°C/24hrs 125°C/70hrs	ASTM D395-B, ISO 815-A	%	41.7 55.9
Brittle Temperature	ASTM D746, ISO 812B	°C	-54
Long Term Heat Aging Performance	1000 h @ 110°C followed by ISO 37	% Retention Tensile % Retention Elongation	97 88

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 Langley's exposure per GMW3417 L1, F2, G1, T5	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects
Natural Weathering, Florida	2 years exposure per SAE J1976, Procedure A	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects
Flammability / Burn rate	FMVSS 302, GMW3232 ISO 3795	mm/min	20.0