

Product Data Sheet
TREXPENE® A55NI-HF

PP/EPDM Based Vulcanized TPR

Product Description: TREXPENE® A55NI-HF is a natural heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This material can be processed using Extrusion, Injection, Blow Molding equipment, or other melt processing.

Property	Test Method	Unit	Typical Values
Hardness	ISO 868	Shore A (15 second delay)	55±3
Density	ISO 1183	g/cm ³	0.97±0.03
Tensile Stress at Break	ISO 37, Type 1, 500mm/min	MPa ⊥ //	4.8 2.8
Tensile Stress at 100%,	ISO 37, Type 1, 500mm/min	MPa ⊥ //	1.8 2.2
Ultimate Elongation	ISO 37, Type 1, 500mm/min	MPa ⊥ //	400 250
Tear Strength	ISO 34-1, Method B, 500 mm/min	kN/m ⊥ //	18 15
Compression Set at 125°C/70hrs 70°C/24hrs	ASTM D395-B, ISO 815-A	Maximum %	40 30
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	95 90
Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Fogging Number, Photometric	SAE J1756, GMW3236	% Reflectance	82, 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	$\Delta E < 3.0$ No Objectionable defects
Flammability / Burn rate	FMVSS 302, GMW3232 ISO 3795	mm/min	18.8