

Product Data Sheet
TREXPENE® A80NU

PP/EPDM Based Vulcanized TPR

Product Description: TREXPENE® A80NU is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This Natural compound is intended primarily for underhood applications such as mats, seals, gaskets, air ducts, CVJ boots, covers, grommets or other parts where softness and conformity are needed. This material 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, Instantaneous 15 second delay	83±3 80±3
Density	ISO 1183	g/cm ³	0.97±0.03
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 125°C/70hrs 70°C/22hrs	ASTM D395-B, ISO 815-A	%	56.8 43.3
Brittle Temperature	ASTM D746, ISO 812B	°C	-59
Long Term Heat Aging Performance	1000 h @ 135°C followed by ISO 37	% Retention Tensile % Retention Elongation	98 88
Short Term Heat Aging Performance	168 h @ 150°C followed by ISO 37	% Tensile Change % Elongation Change % Tensile @ 100% Elongation Change	-7.4 -14.7 +12.2

Fluid Resistance	ISO 1817, 70 125°C/70hrs immersed in RM903 fluid	% Tensile change % Elongation change % Tensile @ 100% Elongation change % Volume change % Tear Strength change	-37 -57 -8 78 -58
Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Flammability / Burn rate	FMVSS 302, GMW3232 ISO 3795	mm/min	26.1