Product Data Sheet
TREXPRENE® A74BW
PP/EPDM Based Vulcanized TPR

Product Description: TREXPRENE® A74BW is a heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV) and is primarily intended for Exterior applications. This material can be processed using Extrusion, Injection, or Blow Molding equipment.

Property	**Test Method**	**Unit**	**Typical Values**
Hardness	ISO 868	Shore A (15 second delay)	75±3
Density	ISO 1183	g/cm^3	0.96±0.02
Tensile Strength, perpendicular to flow	ISO 37, Type 1, 500mm/min	Minimum MPa	7.8 (1130 psi)
Tensile Stress at 100%, perpendicular to flow	ISO 37, Type 1, 500mm/min	Minimum MPa	3.0 (435 psi)
Ultimate Elongation, perpendicular to flow	ISO 37, Type 1, 500mm/min	Minimum %	650
Tear Strength, perpendicular to flow	ISO 34-1, Method B, 500 mm/min	Minimum N/mm	36 (205 lbf)
Compression Set at 22°C/72hrs 125°C/70HRS	ASTM D395-B, ISO 815-A	Maximum %	 39 49
Brittle Temperature	ASTM D746, ISO 812B	°C Maximum	-56
Heat Aging Performance	1000 h @ 135°C followed by ISO 37	% Retention Tensile % Retention Elongation	103.0 93.0

Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Accelerated Weathering	SAE J2527, Extended UV Filters, 2500 kJ/m^2	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects
Natural Weathering, Arizona	2 years exposure per SAE J1976, Procedure A	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