

Product Data Sheet
TREXPENE® D50BW
 PP/EPDM Based Vulcanized TPR

Product Description: TREXPENE® D50BW 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 D (15 second delay)	51±3
Density	ISO 1183	g/cm ³	0.95±0.03
Tensile Strength, perpendicular to flow	ISO 37, Type 1, 500mm/min	MPa	17.8 (2580 psi)
Tensile Stress at 100%, perpendicular to flow	ISO 37, Type 1, 500mm/min	MPa	13.9 (2015 psi)
Ultimate Elongation, perpendicular to flow	ISO 37, Type 1, 500mm/min	%	750
Tear Strength, perpendicular to flow	ISO 34-1, Method B, 500 mm/min	N/mm	107.6 (615 lbf)
Compression Set at 70°C/24hrs	ASTM D395-B, ISO 815-A	%	63
Brittle Temperature	ASTM D746, ISO 812B	°C	-30
Heat Aging Performance	1000 h @ 135°C followed by ISO 37	% Retention Tensile % Retention Elongation	113.1 87.3
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	$\Delta E < 3.0$ No Objectionable defects
Natural Weathering, Arizona	2 years exposure per SAE J1976, Procedure A	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