

# ProFlex Geomembrane

## METRIC - EMEA

ProFlex is a flexible polypropylene geomembrane produced from a resin formulation designed to provide quality geomembrane with excellent flexibility, and improved elasticity and resistance to puncture. These properties assure maximum multiaxial elongation to accommodate differential settlement. ProFlex is ideal for most geomembrane applications and major benefits to installation are provided by lower coefficient of thermal expansion and a wide temperature-welding window.

**[\*]**

**AT THE CORE:**  
Geomembrane with excellent flexibility, improved elasticity and resistance to puncture to assure maximum multiaxial elongation.

## Product Specifications

Tested Property	Unit	Test Method	Values ( * )			
Thickness <sup>(a)</sup>	mm	DIN EN ISO 9863-1	0.75	1.0	1.5	2.0
Density	g/cm <sup>3</sup>	DIN EN ISO 1183-1/A	0.89	0.89	0.89	0.89
Tensile Properties (each Direction)		DIN EN ISO 527-3 (Type 5; 100 mm/min; lo = 50 mm)				
Stress at Break Elongation at Break	MPa %		19 (16) 900 (700)	19 (16) 900 (700)	19 (16) 900 (700)	19 (16) 900 (700)
Tear Resistance	N	DIN ISO 34-1/B (a)	45	60	90	120
Puncture Resistance	N	DIN EN ISO 12236	750	1,000	1,500	2,000
Carbon Black Content	%	ASTM D 4218	3.0	3.0	3.0	3.0
Carbon Black Dispersion	Category	ASTM D 5596	1/2 <sup>(b)</sup>	1/2 <sup>(b)</sup>	1/2 <sup>(b)</sup>	1/2 <sup>(b)</sup>
<b>Reference Property</b>						
Multiaxial Elongation at Break	%	similar to ASTM D 5617; Ø = 500 mm	120	120	120	120
Low Temperature Brittleness	°C	ASTM D 2136	- 40	- 40	- 40	- 40
Roll Width (approx.) <sup>(c)</sup>	m	---	7.0			
Surface	---	---	double-sided smooth			

### NOTES:

(\*): All values - unless otherwise noted - are nominal values. Values in brackets are minimum values within the 95% confidence interval.  
(a): Tolerance ± 10% - Special thickness available upon request.  
(b): Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be category 1 or 2. No more than 1 view from category 3.  
(c): Roll widths and lengths have a tolerance of ± 1%.

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