

# GSE ProFlex Geomembrane

GSE 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 multi-axial elongation to accommodate differential settlement. GSE 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 multi-axial elongation.

## Product Specifications

Tested Property	Unit	Test Method	Minimum Values			
Thickness Lowest individual reading (-10%)	mm	ASTM D 5199	0.75 0.68	1.0 0.90	1.5 1.35	2.0 1.80
Density	g/cm <sup>3</sup>	ASTM D 1505	0.89	0.89	0.89	0.89
Tensile Properties (each Direction)		ASTM D 6693 (Type IV; 500 mm/min; lo = 50 mm)				
Strength at Break Elongation at Break	N/mm %		12 700	17 700	25 700	35 700
Tear Resistance	N	ASTM D 1004	45	55	90	120
Puncture Resistance	N	ASTM D 4833	110	130	200	300
Carbon Black Content	%	ASTM D 4218	3.0	3.0	3.0	3.0
Carbon Black Dispersion	Category	ASTM D 5596	Note <sup>(a)</sup>	Note <sup>(a)</sup>	Note <sup>(a)</sup>	Note <sup>(a)</sup>
Reference Property			Nominal Values			
Multi-axial Strain	%	ASTM D 5617	> 120	> 120	> 120	> 120
Low Temperature Brittleness	°C	ASTM D 2136 <sup>(b)</sup>	< - 40	< - 40	< - 40	< - 40
Roll Width (approx.) <sup>(b)</sup>	m	---	7.0			
Surface	---	---	double-sided smooth			

**NOTES:**

(a): 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.  
 (b): Roll widths and lengths have a tolerance of ± 1%.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



**[ DURABILITY RUNS DEEP ]** For more information on this product and other, please visit us at [GSEworld.com](http://GSEworld.com), call 49.40.767420 or contact your local sales office.

