

# GSE ProFlex Geomembrane

## METRIC

GSE ProFlex is a propylene/ethylene copolymer 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:

A ProFlex geomembrane 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.

## Product Specifications

These product specifications meet GRI GM18

Tested Property	Test Method	Frequency	Minimum Average Value			
			0.75 mm	1.00 mm	1.50 mm	2.00 mm
Thickness, mm Lowest individual reading (-10%)	ASTM D 5199	2,000 kg	0.75 0.68	1.00 0.90	1.50 1.35	2.00 1.80
Density, g/cm <sup>3</sup> (max.)	ASTM D 1505	7,500 kg	0.87	0.87	0.87	0.87
Tensile Properties (each direction) Strength at Break, N/mm Elongation at Break, %	ASTM D 6693, Type IV Dumbbell, 500 mm/min G.L. 50 mm	7,500 kg	12 900	17 900	25 900	35 900
Tear Resistance, N	ASTM D 1004	7,500 kg	45	55	90	100
Puncture Resistance, N	ASTM D 4833	7,500 kg	120	150	200	300
Reference Property	Test Method	Frequency	Nominal Value			
Carbon Black Content, % (Range)	ASTM D 1603*/4218		3.0	3.0	3.0	3.0
Carbon Black Dispersion	ASTM D 5596		Note <sup>(1)</sup>	Note <sup>(1)</sup>	Note <sup>(1)</sup>	Note <sup>(1)</sup>
Mult-axial Strain, %	ASTM D 5617		> 120	> 120	> 120	> 120
Low Temperature Brittleness, °C	ASTM D 2136 <sup>(2)</sup>		< -40	< -40	< -40	< -40
TYPICAL ROLL DIMENSIONS						
Roll Length <sup>(3)</sup> , m			341	265	171	131
Roll Width <sup>(3)</sup> , m			6.9	6.9	6.9	6.9
Roll Area, m <sup>2</sup>			2,341	1,819	1,171	899

### NOTES:

- <sup>(1)</sup>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.
- <sup>(2)</sup>Using 32mm mandrel 4 hours.
- <sup>(3)</sup>Roll lengths and widths have a tolerance of ±1%.
- GSE ProFlex is available in rolls weighing approximately 1,769 kg.
- \*Modified.

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 others, please visit us at [GSEworld.com](http://GSEworld.com), call 800.435.2008 or contact your local sales office.