

# EL 1000 GEOMEMBRANES

EL 1000 has been the trusted geomembrane used in hydraulic fracturing operations for many years. Its unique features, such as the immediately recognizable grey skin and high level of flexibility, have made this the go-to product in the industry. We designed and continue to manufacture this geomembrane to bring a balance of value and reliability that has made it a staple in our industry.

November 2025		EL 1000 Geomembranes				
Material Properties	Rev	ASTM	EL 1020	EL 1030	EL 1040N	EL 1040
	Thickness	D5199	20 mil 0.5 mm	30 mil 0.75 mm	36 mil 0.91 mm	40 mil 1.0 mm
	Density (typical)	D792	0.93	0.93	0.93	0.93
	Tensile Strength at Break	D6693	76 ppi 13 N/mm	114 ppi 20 N/mm	136 ppi 24 N/mm	152 ppi 27 N/mm
	Elongation	D6693	800%	800%	700%	800%
	Tear Resistance	D1004	11 lbs 49 N	16 lbs 70 N	19 lbs 84 N	22 lbs 100 N
	Puncture Resistance	D4833	29 lbs 120 N	42 lbs 190 N	54 lbs 240 N	56 lbs 250 N
	Carbon Black Content	D6370	≥ 2.0%	≥ 2.0%	≥ 2.0%	≥ 2.0%
	High Pressure OIT	D5885	400 min	400 min	N/A	400 min
	Low Temperature Impact Resistance	D746	-69°F -56°C	-69°F -56°C	-40°F -40°C	-69°F -56°C
	Service Temperatures	Max Continuous Use	140°F 60°C	140°F 60°C	140°F 60°C	140°F 60°C

**Disclaimer:** Layfield disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

For up-to-date technical information, be sure to visit us online at [www.LayfieldGroup.com](http://www.LayfieldGroup.com)

# EL 1000 GEOMEMBRANES

November 2025

## EL 1000 Shop Seam Strengths

Style	ASTM D6392	EL 1020	EL 1030	EL 1040N	EL 1040
Heat Bonded Seam Strength	25.4 mm (1") Strip	30 ppi 5.2 N/mm	45 ppi 7.7 N/mm	50 ppi 8.7 N/mm	60 ppi 10.3 N/mm
Peel Adhesion Strength (Wedge Welded)	25.4 mm (1") Strip	25 ppi 4.3 N/mm	38 ppi 6.5 N/mm	45 ppi 7.9 N/mm	50 ppi 8.7 N/mm

November 2025

## EL 1000 Field Seam Strengths

Style	ASTM D6392	EL 1020	EL 1030	EL 1040N	EL 1040
Heat Bonded Seam Strength	25.4 mm (1") Strip	30 ppi 5.2 N/mm	45 ppi 7.7 N/mm	50 ppi 8.7 N/mm	60 ppi 10.3 N/mm
Peel Adhesion Strength (Wedge Welded)	25.4 mm (1") Strip	22 ppi 3.8 N/mm	34 ppi 5.9 N/mm	40 ppi 7.0 N/mm	44 ppi 8.7 N/mm

**Disclaimer:** Layfield disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

For up-to-date technical information, be sure to visit us online at [www.LayfieldGroup.com](http://www.LayfieldGroup.com)