

ENVIRO LINER® 6000 – TEXTURED GEOMEMBRANE

With its exceptional flexibility and endurance properties, Layfield's Enviro Liner® (EL) brand of geomembranes has been a trusted performer in our portfolio for many years. Available in four unique formulations, this series of geomembranes offers solutions for a wide range of containment applications.

The flagship Enviro Liner® 6000 incorporates the latest ultraviolet/anti-oxidant (UV/AO) stabilization technology, providing a new level of UV resistance and endurance properties. It is designed for long-term exposed applications and has excellent chemical resistance, making it one of the most durable geomembranes on the market. Textured Enviro Liner® 6000 geomembrane is available with texturing on one or both sides to provide excellent interface friction properties in combination with outstanding longevity.

April 2023		Enviro Liner® 6000 Textured				
Style	ASTM	Enviro Liner® 6030	Enviro Liner® 6140/6240	Enviro Liner® 6150/6250	Enviro Liner® 6160/6260	Enviro Liner® 6180/6280
Thickness Minimum Average Value	D5994	28.5 mil 0.72 mm	38 mil .96 mm	47.5 mil 1.21 mm	57 mil 1.45 mm	76 mil 1.9 mm
Thickness Lowest individual for 8 out of 10 values	D5994	27 mil 0.68 mm	36 mil 0.91 mm	45 mil 1.14 mm	54 mil 1.37 mm	72 mil 1.83 mm
Thickness Lowest individual for any of the 10 values	D5994	25.5 mil 0.65 mm	34 mil 0.86 mm	42.5 mil 1.08 mm	51.0 mil 1.30 mm	68.0 mil 1.73 mm
Asperity Height	D7466	10 mil 0.25 mm	16 mil 0.40 mm	16 mil 0.40 mm	16 mil 0.40 mm	16 mil 0.40 mm
Density (Maximum)	D1505	≤0.939 g/cc	≤0.939 g/cc	≤0.939 g/cc	≤0.939 g/cc	≤0.939 g/cc
Tensile Strength at Break	D5514	57 ppi 10 N/mm	76 ppi 13 N/mm	95 ppi 17 N/mm	114 ppi 20 N/mm	120 ppi 21 N/mm
Elongation at Break Tested using 50 mm (2") Gauge Length	D6693	350%	350%	350%	350%	250%
Tear Resistance	D6693	16 lbs 71 N	22 lbs 98 N	27 lbs 120 N	33 lbs 147 N	44 lbs 200 N
Puncture Resistance	D1004	40 lbs 178 N	53 lbs 236 N	66 lbs 294 N	80 lbs 355 N	88 lbs 400 N
Axi-Symmetric Strain	D4833	30%	50%	50%	50%	50%
Carbon Black Content	D5617	2-3%	2-3%	2-3%	2-3%	2-3%

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Carbon Black Dispersion	D5596	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2
Oxidative Induction Time (OIT)	D3895	200 Minutes				
High Pressure Oxidative Induction Time (HPOIT)	D5885	2,000 Minutes				
UV Resistance 30,000 hrs Strength Retained ¹	D4329	90% (Black)				
<i>Notes: ¹UV testing performed on EL6030 smooth black specimen</i>						

April 2023		Enviro Liner® 6000 Minimum Shop Seam Strengths				
Style	ASTM D6392	Enviro Liner® 6130	Enviro Liner® 6140/6240	Enviro Liner® 6150/6250	Enviro Liner® 6160/6260	Enviro Liner® 6180/6280
Heat Bonded Seam Strength	25.4 mm (1") Strip	45 ppi 7.8 N/mm	60 ppi 10.5 N/mm	75 ppi 13.1 N/mm	Not Shop Fabricated	Not Shop Fabricated
Peel Adhesion Strength (Wedge Welded)	25.4 mm (1") Strip	38 ppi 6.7 N/mm	50 ppi 8.8 N/mm	63 ppi 11.0 N/mm	Not Shop Fabricated	Not Shop Fabricated

April 2023		Enviro Liner® 6000 Minimum Field Seam Strengths				
Style	ASTM D6392	Enviro Liner® 6030	Enviro Liner® 6140/6240	Enviro Liner® 6150/6250	Enviro Liner® 6160/6260	Enviro Liner® 6180/6280
Heat Bonded Seam Strength <i>Test Temp 23°C, 73°F</i>	25.4 mm (1") Strip	45 ppi 7.8 N/mm	60 ppi 10.5 N/mm	75 ppi 13.1 N/mm	90 ppi 15.7 N/mm	120 ppi 21.0 N/mm
Peel Adhesion Strength (Wedge Welded)	25.4 mm (1") Strip	34 ppi 6.0 N/mm	44 ppi 7.7 N/mm	57 ppi 10.0 N/mm	66 ppi 11.5 N/mm	88 ppi 15.4 N/mm

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INSTALLATION

Layfield's Enviro Liner® 6000 textured geomembrane is normally supplied in prefabricated panels when the thickness is 50 mil (1.25 mm) or thinner. These fabricated panels are deployed onsite, often covering a small project in a single piece. The installation of textured geomembranes follows the same procedures and techniques as for the corresponding smooth material. Panels are deployed and then welded together using normal wedge welding and extrusion welding techniques. The welding edges of our textured geomembranes feature a reduction in the texturing height to make welding easier. When fabricated panels of textured materials are supplied, they will be marked to show how they unroll/unfold in the containment area. When wide rolls of materials are supplied, the white textured surface (if supplied) will be wound onto the inside of the roll. Installation guide specifications for textured Enviro Liner® 6000 materials are available on our web site.

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