

ENVIRO LINER® 6000 – TEXTURED GEOMEMBRANE

With its exceptional flexibility and endurance properties, Layfield's Enviro Liner® 6000 geomembrane has been a trusted performer in our portfolio for many years, offering long-lasting solutions for a wide range of containment applications.

The flagship Enviro Liner® 6000 is NSF 61 compliant and 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, providing excellent interface friction properties in combination with outstanding longevity.

February 2026		Enviro Liner® 6000 Textured				
Material Properties	Properties	ASTM	Enviro Liner® 6140/6240	Enviro Liner® 6150/6250	Enviro Liner® 6160/6260	Enviro Liner® 6180/6280
	Thickness Minimum Average Value	D5994	38 mil .95 mm	47.5 mil 1.19 mm	57 mil 1.43 mm	76 mil 1.9 mm
	Thickness Lowest individual for 8 out of 10 values	D5994	36 mil 0.90 mm	45 mil 1.13 mm	54 mil 1.35 mm	72 mil 1.8 mm
	Thickness Lowest individual for any of the 10 values	D5994	34 mil 0.85 mm	42.5 mil 1.07 mm	51.0 mil 1.28 mm	68.0 mil 1.7 mm
	Asperity Height	D7466	16 mil 0.40 mm	16 mil 0.40 mm	16 mil 0.40 mm	16 mil 0.40 mm
	Tensile Strength at Break	D6693	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%	250%
	Tear Resistance	D1004	22 lbs 98 N	27 lbs 120 N	33 lbs 147 N	44 lbs 200 N
	Puncture Resistance	D4833	53 lbs 236 N	66 lbs 294 N	80 lbs 355 N	88 lbs 400 N
	Axi-Symmetric Strain	D5617	50%	50%	50%	50%
	Carbon Black Content	D4218	2-3%	2-3%	2-3%	2-3%

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Carbon Black Dispersion	D5596	9 out of 10 in CAT 1 or 2; 1 in CAT 3
Oxidative Induction Time (OIT)	D8117	> 180 Minutes
High Pressure Oxidative Induction Time (HPOIT)	D5885	> 2,000 Minutes
UV Resistance ¹ % HPOIT Retained after 1600 hrs	D7238/ D5885	>80%
UV Resistance 30,000 hrs Strength Retained ¹	D4329	90% (Black)
Oven Aging at 85°C ¹ % OIT retained after 90 days % HPOIT retained after 90 days	D5721 D8117/ D5885	>35% >90%
Notes: ¹ UV testing performed on Enviro Liner® 6030 smooth black specimen		

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Enviro Liner® 6000 Minimum Shop Seam Strengths

Properties	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

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Enviro Liner® 6000 Minimum Field Seam Strengths

Properties	ASTM D6392	Enviro Liner® 6140/6240	Enviro Liner® 6150/6250	Enviro Liner® 6160/6260	Enviro Liner® 6180/6280
Heat Bonded Seam Strength Test Temp 23°C, 73°F	25.4 mm (1") Strip	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	50 ppi 8.8 N/mm	63 ppi 11.0 N/mm	75 ppi 13.1 N/mm	100 ppi 17.5 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 website.

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