

ENVIRO LINER® 4000 – 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.

Enviro Liner® 4000 textured is a specialized LLDPE polyethylene lining material that combines flexibility, UV stability, and chemical resistance, allowing for easy accommodation to differential settlement, with surface texturing on one or both sides.

April 2023		Enviro Liner® 4000 Textured		
Rev	ASTM	Enviro Liner® 4130	Enviro Liner® 4140/4240	Enviro Liner® 4160/4260
Thickness (minimum average)	D5199	28.5 mil 0.713 mm	38 mil 0.95 mm	57 mil 1.46 mm
Asperity Height	D7466	10 mil ¹ 0.25 mm	16 mil 0.40 mm	16 mil 0.40 mm
Density (maximum)	D792	≤ 0.939 g/ml	≤ 0.939 g/ml	≤ 0.939 g/ml
Tensile Strength at Break	D6693	45 ppi 9 N/mm	60 ppi 11 N/mm	90 ppi 16 N/mm
Elongation at Break	D6693	250%	250%	250%
Tear Resistance	D1004	16 lbs 70 N	22 lbs 100 N	33 lbs 150 N
Puncture Resistance	D4833	33 lbs 150 N	44 lbs 200 N	66 lbs 300 N
Carbon Black Content	D6370	≥ 2.0%	≥ 2.0%	≥ 2.0%
Carbon Black Dispersion	D5596	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2
UV Resistance HPOIT retained after 1600 hrs	D7238 D5885	35%	35%	35%

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For up-to-date technical information, be sure to visit us online at www.LayfieldGroup.com

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April 2023

Enviro Liner® 4000 Textured Shop Seam Strengths

Style	ASTM D6392	Enviro Liner® 4130	Enviro Liner® 4140/4240	Enviro Liner® 4160/4260
Heat Bonded Seam Strength	25.4 mm (1") Strip	45 ppi 7.7 N/mm	60 ppi 10.3 N/mm	Not shop fabricated
Peel Adhesion Strength (Wedge Welded)	25.4 mm (1") Strip	38 ppi 6.5 N/mm	50 ppi 8.6 N/mm	Not shop fabricated

April 2023

Enviro Liner® 4000 Textured Field Seam Strengths

Style	ASTM D6392	Enviro Liner® 4130	Enviro Liner® 4140/4240	Enviro Liner® 4160/4260
Heat Bonded Seam Strength	25.4 mm (1") Strip	45 ppi 7.7 N/mm	60 ppi 10.3 N/mm	90 ppi 15.7 N/mm
Peel Adhesion Strength (Wedge Welded)	25.4 mm (1") Strip	34 ppi 5.9 N/mm	44 ppi 8.7 N/mm	66 ppi 11.6 N/mm

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