

# 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<br>Minimum Average Value                          | D5994                       | 38 mil<br>.95 mm        | 47.5 mil<br>1.19 mm     | 57 mil<br>1.43 mm       | 76 mil<br>1.9 mm        |
|                      | Thickness<br>Lowest individual for 8 out of 10 values       | D5994                       | 36 mil<br>0.90 mm       | 45 mil<br>1.13 mm       | 54 mil<br>1.35 mm       | 72 mil<br>1.8 mm        |
|                      | Thickness<br>Lowest individual for any of the 10 values     | D5994                       | 34 mil<br>0.85 mm       | 42.5 mil<br>1.07 mm     | 51.0 mil<br>1.28 mm     | 68.0 mil<br>1.7 mm      |
|                      | Asperity Height   | D7466                       | 16 mil<br>0.40 mm       | 16 mil<br>0.40 mm       | 16 mil<br>0.40 mm       | 16 mil<br>0.40 mm       |
|                      | Tensile Strength at Break                                   | D6693                       | 76 ppi<br>13 N/mm       | 95 ppi<br>17 N/mm       | 114 ppi<br>20 N/mm      | 120 ppi<br>21 N/mm      |
|                      | Elongation at Break<br>Tested using 50 mm (2") Gauge Length | D6693                       | 350%                    | 350%                    | 350%                    | 250%                    |
|                      | Tear Resistance   | D1004                       | 22 lbs<br>98 N          | 27 lbs<br>120 N         | 33 lbs<br>147 N         | 44 lbs<br>200 N         |
|                      | Puncture Resistance   | D4833                       | 53 lbs<br>236 N         | 66 lbs<br>294 N         | 80 lbs<br>355 N         | 88 lbs<br>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 <sup>1</sup><br>% HPOIT Retained after 1600 hrs                                     | D7238/<br>D5885          | >80%                                  |
| UV Resistance<br>30,000 hrs Strength Retained <sup>1</sup>  | D4329                    | 90% (Black)                           |
| Oven Aging at 85°C <sup>1</sup><br>% OIT retained after 90 days<br>% HPOIT retained after 90 days | D5721<br>D8117/<br>D5885 | >35%<br>>90%                          |

Notes: <sup>1</sup>UV testing performed on Enviro Liner® 6030 smooth black specimen

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## Enviro Liner® 6000 Minimum Shop Seam Strengths

| Properties                               | ASTM<br>D6392         | Enviro Liner®<br>6130 | Enviro Liner®<br>6140/6240 | Enviro Liner®<br>6150/6250 | Enviro Liner®<br>6160/6260 | Enviro Liner®<br>6180/6280 |
|--|-----------------------|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Heat Bonded Seam Strength                | 25.4 mm<br>(1") Strip | 45 ppi<br>7.8 N/mm    | 60 ppi<br>10.5 N/mm        | 75 ppi<br>13.1 N/mm        | Not Shop<br>Fabricated     | Not Shop<br>Fabricated     |
| Peel Adhesion Strength<br>(Wedge Welded) | 25.4 mm<br>(1") Strip | 38 ppi<br>6.7 N/mm    | 50 ppi<br>8.8 N/mm         | 63 ppi<br>11.0 N/mm        | Not Shop<br>Fabricated     | Not Shop<br>Fabricated     |

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## Enviro Liner® 6000 Minimum Field Seam Strengths

| Properties  | ASTM<br>D6392         | Enviro Liner®<br>6140/6240 | Enviro Liner®<br>6150/6250 | Enviro Liner®<br>6160/6260 | Enviro Liner®<br>6180/6280 |
|---|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Heat Bonded Seam Strength<br>Test Temp 23°C, 73°F | 25.4 mm<br>(1") Strip | 60 ppi<br>10.5 N/mm        | 75 ppi<br>13.1 N/mm        | 90 ppi<br>15.7 N/mm        | 120 ppi<br>21.0 N/mm       |
| Peel Adhesion Strength<br>(Wedge Welded)          | 25.4 mm<br>(1") Strip | 50 ppi<br>8.8 N/mm         | 63 ppi<br>11.0 N/mm        | 75 ppi<br>13.1 N/mm        | 100 ppi<br>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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