GSE UltraFlex White Textured Geomembrane (Single-Sided)

GSE UltraFlex White Textured is a co-extruded textured linear low density polyethylene (LLDPE) geomembrane available on one or both sides. It is manufactured from the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, flexibility and elongation properties where differential or localized subgrade settlements may occur such as in a landfill closure application.

Product Specifications

<table>
<thead>
<tr>
<th>Tested Property</th>
<th>Test Method</th>
<th>Frequency</th>
<th>Minimum Average Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness, mm (mil)(^{(1)})</td>
<td>ASTM D 5994</td>
<td>every roll</td>
<td>1.0 (40) 0.85 (34)</td>
</tr>
<tr>
<td>Lowest Individual reading, mm (mil)</td>
<td>ASTM D 150S</td>
<td>every 5th roll</td>
<td>≤0.939 ≤0.939 ≤0.939</td>
</tr>
<tr>
<td>Density, g/cm(^3)</td>
<td>ASTM D 6693, Type IV Dumbell, 2 ipm G.L. 51 mm (2.0 in)</td>
<td>every 5th roll</td>
<td>11.1 (103) 23 (131) 28 (160)</td>
</tr>
<tr>
<td>Tensile Properties (each direction)(^{(2)})</td>
<td>ASTM D 1004</td>
<td>every 5th roll</td>
<td>100 (22) 150 (34) 200 (45)</td>
</tr>
<tr>
<td>Strength at Break, N/mm-width (lb/in)</td>
<td>ASTM D 4833</td>
<td>every 5th roll</td>
<td>214 (48) 325 (73) 436 (98)</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>ASTM D 1603 / D 4218</td>
<td>every 5th roll</td>
<td>2.0 – 3.0 2.0 – 3.0 2.0 – 3.0</td>
</tr>
<tr>
<td>Carbon Black Dispersion</td>
<td>ASTM D 5596</td>
<td>every 5th roll</td>
<td>Note(1) Note(1) Note(1)</td>
</tr>
<tr>
<td>Asperity Height</td>
<td>ASTM D 7466</td>
<td>every 2nd roll</td>
<td>Note(1) Note(1) Note(1)</td>
</tr>
<tr>
<td>Oxidative Induction Time, minutes</td>
<td>ASTM D 3895, 200° C: O(_2), 1 atm</td>
<td>90,000 kg &gt;100 &gt;100 &gt;100</td>
<td></td>
</tr>
</tbody>
</table>

Typical Roll Dimensions

- Roll Length\(^{(3)}\), m (ft): 200 (656)
- Roll Width\(^{(4)}\), m (ft): 7.0 (23)
- Roll Area, m\(^2\) (ft\(^2\)): 1,400 (15,088)
- 40’ Standard Container, roll: 9 14 14

Notes:
- \(^{(1)}\) Minimum average core thickness is -5% of the nominal thickness; lowest thickness for 8 out of 10 values is – 10% of the nominal value; lowest thickness for any of the 10 values is –15% of the nominal value.
- \(^{(2)}\) The combination of stress concentrations due to co-extrusion texture geometry and the small specimen size results in large variation of test results. Therefore, these tensile properties are minimum average values.
- \(^{(3)}\) GSE UltraFlex White Textured may have an overall ash content greater than 3.0% due to the white layer.
- \(^{(4)}\) Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.
- \(^{(5)}\) Oxidation induction time is determined by using ASTM D 3895, 200° C; O\(_2\), 1 atm.

**AT THE CORE:**

An LLDPE geomembrane suitable for applications that require increased frictional resistance, flexibility and elongation properties.

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**For more information on this product and others, please visit us at GSEworld.com, call 662.937.0091 or contact your local sales office.**

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