

# TITAN 100HD SST/DST

100mil HDPE TEXTURED GEOMEMBRANE



Titan HD is a co-extruded textured high-density polyethylene (HDPE) geomembrane available on one or both sides. It is manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, excellent chemical resistance and endurance properties. This product specification meets GRI-GM13. Single Sided (SST) and Double Sided (DST).

| TESTED PROPERTY   | TEST METHOD  | FREQUENCY              | UNIT ENGLISH (METRIC)                              | VALUE ENGLISH (METRIC)            |
|---|--|------------------------|--|-----------------------------------|
| Thickness Lowest individual reading   | ASTM D 5994  | every roll             | mil (mm)   | 100 (2.50)<br>90 (2.25)           |
| Density   | ASTM D 1505  | 200,000 lb (90,000 kg) | g/cm <sup>3</sup> (min)                            | 0.940                             |
| Tensile Properties (Each Direction)<br>Strength at Break<br>Strength at Yield<br>Elongation at Break<br>Elongation at Yield | ASTM D 6693, Type IV Dumbbell, 2 ipm<br><br>G.L. 2.0in (50mm)<br>G.L. 1.3in (33mm) | 20,000 lb (9,000 kg)   | lb/in-width (N/mm)<br>lb/in-width (N/mm)<br>%<br>% | 150 (26)<br>210 (37)<br>100<br>12 |
| Tear Resistance   | ASTM D 1004  | 45,000 lb (20,000 kg)  | lbs (N)  | 70 (311)                          |
| Puncture Resistance   | ASTM D 4833  | 45,000 lb (20,000 kg)  | lbs (N)  | 150 (667)                         |
| Carbon Black Content  | ASTM D 1603*/4218  | 20,000 lb (9,000 kg)   | % (range)  | 2.0 – 3.0                         |
| Carbon Black Dispersion   | ASTM D 5596  | 45,000 lb (20,000 kg)  |  | Note <sup>1</sup>                 |
| Asperity Height   | ASTM D 7466  | second roll            | mil (mm)   | 18 (0.45)                         |
| Notched Constant Tensile Load   | ASTM D 5397, Appendix  | 200,000 lb (90,000 kg) | hr   | 500                               |
| Oxidative Induction Time  | ASTM D 3895, 200 °C; O <sub>2</sub> , 1 atm  | 200,000 lb (90,000 kg) | mins   | >100                              |
| <b>TYPICAL ROLL DIMENSIONS</b>  |  |                        |  |                                   |
| Roll Length <sup>3</sup>  | Double-Sided Textured  |                        | ft (m)   | 330 (101)                         |
|   | Single-Sided Textured  |                        | ft (m)   | 330 (101)                         |
| Roll Width <sup>3</sup>   |  |                        | ft (m)   | 22.5 (6.86)                       |
| Roll Area   | Double-Sided Textured  |                        | ft <sup>2</sup> (m <sup>2</sup> )                  | 7,425 (693)                       |
|   | Single-Sided Textured  |                        | ft <sup>2</sup> (m <sup>2</sup> )                  | 7,425 (693)                       |

**NOTES:**

- (1) Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be category 1 or 2. No more 1 view from category 3.
- (2) NCTL for HDPE Textured is conducted on representative smooth geomembrane samples.
- (3) Roll Lengths and widths have a tolerance of ±1%. o HDPE Smooth is available in rolls weighing approximately 4,000 lb (1,800 kg). o All geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77 °C when tested according to ASTM D 746.
- o \*Modified

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