



TITAN 480 SERIES

GEOMEMBRANE HDPE SMOOTH LINER

(80 mil HDPE)

| PROPERTY | TEST PROCEDURE | VALUE (metric) |
|--|----------------|----------------|
| Thickness (min avg.) | ASTM D-5199 | 2.0 mm (80mil) |
| Thickness (min) | ASTM D-5199 | 1.8 mm |
| Resin Density | ASTM D-1505 | >0.932g/cc |
| Melt Index-190/2.16 (max.) | ASTM D-1238 | 1.0 g/10min. |
| Sheet Density | ASTM D-1505 | >0.94 g/cc |
| Carbon Black Content | ASTM D-4218 | >2.0% / <3.0% |
| Carbon Black Dispersion | ASTM D-5596 | Category 1 / 2 |
| Oxidation Induction Time (min. avg) | ASTM D-3895 | 100 min. |
| Tensile Properties (min. avg) (2) | ASTMD-6693 | |
| Strength at Yield | | 31 kN/m |
| Elongation at Yield | | 13% |
| Strength at Break | | 57 kN/m |
| Elongation at Break | | 700% |
| Tear Resistance (min.avg) | ASTM D-1004 | 250 N |
| Puncture Resistance (min. avg) | ASTM D-4833 | 695 N |
| Dimensional Stability | ASTM D-1204 | ± 2% |
| Stress Crack Resistance (SP-NCTL) | ASTM D-5397 | 300 hr. |
| Oven Aging-%retained after 90 days | ASTM D-5721 | |
| HP-OIT (min.avg) | ASTM D-5885 | 80% |
| UV Resistance-% retained after 1600 hr | GRI-GM-11 | |
| HP-OIT (min. avg.) | ASTM D-5885 | 50% |

| SUPPLY SPECIFICATIONS | UNIT |
|--------------------------|---|
| Roll Dimensions – Width | 6.80 m (22.5 ft) |
| Roll Dimensions – Length | 121.9 m (400 ft) |
| Area (Surface/Roll) | 829 m ² (8,923 ft ²) |

This data is provided for informational purposes only. *Titan Environmental Containment Ltd.* makes no warranties as to the suitability or the fitness for a specific use or merchantability of the products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability from resulting loss or damage. This information is subject to change without notice, please check with *Titan Environmental Containment Ltd.* for current updates.

Titan Environmental Containment Ltd.

777 Quest Blvd • Ile des Chenes, Manitoba • R0A0T0 • CANADA

Phone: +1.204.878.3955 Fax: +1.204.878.3980 Toll Free: +1.866.327.1957