

# TITAN WOVEN COATED (RPE)

12mil WOVEN COATED GEOMEMBRANE



Commonly used for temporary landfill covers or short-term liners. Titan 12mil Woven Coated Geomembrane is a medium-weight fabric incorporating a coating designed to improve toughness and abrasion resistance.

## PRODUCT SPECIFICATIONS:

**Weave :** Woven black HDPE scrim  
**Coating :** LDPE 1.5mil average each side (35.5 g/m<sup>2</sup>/side)  
**Color :** Black or colored coatings available  
**Weight :** 5.2 oz/yd<sup>2</sup> (176 g/m<sup>2</sup>) ± 5%

## PERFORMANCE PROPERTIES:

The following data are typical values based on ASTM standard tests. This data should not be considered a specification.

| TESTED PROPERTY                       | TEST METHOD                                   | UNIT ENGLISH (METRIC)   | VALUE ENGLISH (METRIC)   |           |
|---------------------------------------|---|---|--------------------------|-----------|
|                                       |   |   | MD                       | TD        |
| Thickness                             | ASTM D 1777                                   | mil (mm)  | Nominal 12 (0.30) ±10%   |           |
| Grab Tensile                          | ASTM D 7004                                   | lbs (N)   | 180 (799)                | 125 (555) |
| Strip Tensile                         | ASTM D 7003                                   | lb/in (N/5cm)   | 140 (1243)               | 100 (888) |
| Tongue Tear - Large Scale             | ASTM D 5884                                   | lbs (N)   | 50 (222)                 | 50 (222)  |
| Mullen Burst                          | ASTM D 751                                    | psi (kPa)   | 275 (1895)               |           |
| MVTR                                  | ASTM E 96 Proc. BW                            | g/m <sup>2</sup> 24 hrs (perms)   | 0.35 (0.05)              |           |
| Hydraulic Conductivity (Permeability) | Calculated from MVTR                          | cm/s  | 1.37 x 10 <sup>-14</sup> |           |
| Hydrostatic Resistance                | ASTM D 751                                    | psi (kPa)   | 130 (896)                |           |
| Puncture Resistance                   | ASTM D 4833                                   | lbs (N)   | 76 (337)                 |           |
| CBR Static Puncture                   | ASTM D 6241                                   | lbs (N)   | 530 (2353)               |           |
| Carbon Black Content                  | ASTM D 4218                                   | %   | 3                        |           |
| Dimensional Stability                 | ASTM D 1204                                   | %   | -2.9                     | -2.2      |
| Low-Temperature Flex                  | ASTM D 2136-94                                | Pass  | -40°C                    | -40°F     |
| HP-OIT                                | ASTM D 5885 (Measured on coating formulation) | Minutes   | 1330                     |           |
| Accelerated UV Weathering             | ASTM D 7238                                   | after 2000 hours exposure @0.77 W/m <sup>2</sup> /nm, or 1200 hrs exposure @1.35 W/m <sup>2</sup> /mn | > 90% strength retention |           |

### NOTES:

MD = Machine Direction. TD = Transverse Direction

i Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4 hrs condensation @ 65°C

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## Titan Environmental Containment

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