

# TITAN 20MIL LLDPE

LLDPE Smooth Geomembrane



Titan's 20mil polyethylene is produced from virgin polyethylene resins. It has outstanding flexibility and elongation characteristics. Titan's 20mil Polyethylene contains approximately 97.5% polymer and 2.5% carbon black, antioxidants, and heat stabilizers, and contains no additives, fillers, or extenders. Titan's 20mil Polyethylene does not contain plasticizers which can migrate to the surface, causing premature aging. Manufactured from virgin polyethylene resins, it is designed to provide a high-quality, economical Geomembrane.

| TESTED PROPERTY                        | TEST METHOD | UNIT ENGLISH (METRIC) | VALUE ENGLISH (METRIC) |
|--|-------------|-----------------------|------------------------|
| Thickness                              | ASTM D 5199 | mil (mm)              | 20 ± 10% (0.5)         |
| Density                                | ASTM D 1505 | g/cm <sup>3</sup>     | 0.920                  |
| Tensile Strength – Strength at Break   | ASTM D 6693 | lb/in-width (kN/m)    | 76 (13)                |
| Tensile Strength – Elongation at Break | ASTM D 6693 | %                     | 800                    |
| Tear Resistance                        | ASTM D 1004 | lb (N)                | 11 (49)                |
| Puncture Resistance                    | ASTM D 4833 | lb (N)                | 30 (130)               |
| Dimensional Stability                  | ASTM D 1204 | %                     | ±2                     |
| Carbon Black Content                   | ASTM D 1603 | %                     | > 2.0 / >2.5           |
| Hydrostatic Resistance                 | ASTM D 751  | kPa                   | 118 (814)              |
| U.V. Resistance GRI-GM-11              | ASTM D 5885 | %                     | 35                     |
| Low Temp. Impact Failure               | ASTM D 746  | °F                    | < -94 (-70)            |
| Shop Shear Seam Strength               | ASTM D 4545 | lb/in (kN/m)          | 40 (7.0)               |
| Shop Peel Seam Strength                | ASTM D 4545 | lb/in (kN/m)          | 30 (5.3)               |

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## Titan Environmental Containment

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