

TechGeo DURABILITY HDPE TXT 2.50 mm

TechGeo DURABILITY HDPE TXT Geomembrane Series was developed to overcome international standards and recommendations and aims to offer greater durability and enable a longer service life for the projects when specified.

Manufactured by a Blown Film process with an automatic and state-of-the-art texturing process by injection of nitrogen gas and using latest generation high molecular weight virgin resins and additives, **TechGeo DURABILITY HDPE TXT** has greater durability compared to standard market geomembranes.

In addition, it has high mechanical resistance and excellent chemical resistance.

| Available sizes | |
|-----------------|------------|
| Width (m) | Length (m) |
| 7.00 | 80 |

| PROPERTIES | TEST METHOD | UNITY | 2.50 mm 100 mils | TESTING FREQUENCY |
|---|--|-------------------|-------------------------------|----------------------------|
| Thickness (min.ave.) Lowest individual of 8 in 10 values Lowest individual of 10 values | ASTM D5199 | mm | Nominal (-5%) -10% -15% | Per roll |
| Asperity height (min.ave.) | ASTM D7466 | mm mils | 0,40 16 | Every 2 nd roll |
| Formulated density (min.) | ASTM D1505/D792 | g/cm ³ | 0,94 | 90,000 kg |
| Tensile Properties – Yield Strength (min.ave.) | ASTM D6693 Type IV | kN/m | 37 | 9,000 kg |
| Tensile Properties – Yield elongation (min.ave.) | ASTM D6693 Type IV | % | 12 | |
| Tensile Properties – Break strength (min.ave.) | ASTM D6693 Type IV | kN/m | 26 | |
| Tensile Properties - Break elongation (min.ave.) | ASTM D6693 Type IV | % | 100 | |
| Tear resistance (min.ave.) | ASTM D1004 | N | 311 | 20,000 kg |
| Puncture resistance (min.ave.) | ASTM D4833 | N | 667 | 20,000 kg |
| Stress Crack Resistance (min.) | ASTM D5397 | h | 750 | GM 10 (GRI) |
| Carbon Clack Content | ASTM D1603 | % | 2 – 3 | 9,000 kg |
| Carbon Black Dispersion | ASTM D5596 | - | Nota (1) | 20,000 kg |
| Oxidative Induction Time Standard OIT (min.ave.) High Pressure OIT (min.ave.) | ASTM D3895 ASTM D5885 | min | 125 800 | 90,000kg |
| Oven Aging * Standard OIT (min.ave.) High Pressure OIT (min.ave.) | ASTM D5721 ASTM D3895 ASTM D5885 | % | 55 80 | Per formulation |
| UV Resistance ** Standard OIT (min.ave.) High Pressure OIT (min.ave.) | ASTM D7238 ASTM D3895 ASTM D5885 | % | Nota (2) 65 | Per formulation |

(1) Carbon black dispersion for 10 different views: 9 in categories 1 and 2; 1 in category 3

(2) Not recommended since the high temperature of the Standard OIT test produces an unrealistic result for some of the antioxidants in the UV exposed samples

Obs: roll tolerable variation in width and length: ±2%

* (Retained after 90 days)

** (Retained after 1.600hrs)