

TechGeo DURABILITY LLDPE TXT 1.25 mm

TechGeo DURABILITY LLDPE 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 virgin resins and additives, **TechGeo DURABILITY** has greater durability compared to standard market geomembranes.

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

Available sizes	
Width (m)	Length (m)
7.00	100

PROPERTIES	TEST METHOD	UNITY	1.25 mm 50 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	0.939	90,000 kg
Tensile Properties – Break strength (min.ave.)	ASTM D6693 Type IV	kN/m	13	9,000 kg
Tensile Properties – Break elongation (min.ave.)	ASTM D6693 Type IV	%	250	
2% Modulus (max.)	ASTM D5323	N/mm	520	Per formulation
Tear resistance (min.ave.)	ASTM D1004	N	120	20,000 kg
Puncture resistance (min.ave.)	ASTM D4833	N	250	20,000 kg
Axi-Symmetric Break Resistance Strain - % (min.)	ASTM D5617	%	30	Per formulation
Carbon Black Content	ASTM D1603	%	2 – 3	20,000kg
Carbon Black Dispersion	ASTM D5596	-	Note (1)	20,000 kg
Oxidative Induction Time Standard OIT (min.ave.) High Pressure OIT (min.ave.)	ASTM D3895 ASTM D5885	min	125 600	90,000kg
Oven aging* Standard OIT (min.ave.) High Pressure OIT (min.ave.)	ASTM D5721 ASTM D3895 ASTM D5885	%	35 60	Per formulation
UV Resistance** Standard OIT (min.ave.) High Pressure OIT (min.ave.)	ASTM D7238 ASTM D3895 ASTM D5885	%	Note (2) 45	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)