AZULPACK TECHGROUND

TechGeo DURABILITY LLDPE SMOOTH **1.00 mm**

TechGeo DURABILITY LLDPE SMOOTH 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 using latest generation virgin resins and additivies **TechGeo DURABILITY LLDPE SMOOTH** has greater durability compared to standard market geomembranes.

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

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

PROPERTIES	TEST METHOD	UNITY	1.00 mm 40 mils	TESTING FREQUENCY
Thickness (min.ave.)	ASTM D5199	mm	Nominal	Per roll
Formulated Density (min.)	ASTM D1505/D792	g/cm³	0.939	90,000 kg
Tensile Properties – Break strength (min.ave.)	ASTM D6693 Type IV	kN/m	27	9,000 kg
Tensile Properties – Break elongation (min.ave.)	ASTM D6693 Type IV	%	800	
2% Modulus (max.)	ASTM D5323	N/mm	420	Per formulation
Tear resistance (min.ave.)	ASTM D1004	N	100	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)