TechGeo DURABILITY LLDPE SMOOTH 1.50 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.

PROPERTIES	TEST METHOD	UNITY	1.50 mm 60 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	40	9,000 kg	
Tensile Properties – Break elongation (min.ave.)	ASTM D6693 Type IV	%	800	9,000 kg	
2% Modulus (max.)	ASTM D5323	N/mm	630	Per formulation	
Tear resistance (min.ave.)	ASTM D1004	Ν	150	20,000 kg	
Puncture resistance (min.ave.)	ASTM D4833	Ν	370	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)

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