AZULPACK TECHGROUND

TechGeo Innov HDPE SMOOTH **1.50 mm**

TechGeo Innov HDPE SMOOTH Geomembrane Series was developed under the most rigorous quality control procedures and composed of the latest generation resins. All a result of the state-of-the-art manufacturing process, which makes this product one of the most innovative in the market.
By maximizing the use of raw materials, **TechGeo Innov HDPE SMOOTH** conciliates mechanical and chemical parameters required internationally with a lighter final product. Produced with high molecular weight resins, its main characteristics are excellent mechanical and chemical resistance, in addition to high durability.

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

PROPERTIES	TEST METHOD	UNITY	1.50 mm	TESTING FREQUENCY
Thickness (ave.)	ASTM D5199	mm mils	1.35 mm (+/-5%) 53 mils	Per roll
Formulated Density (min.)	ASTM D1505/D792	g/cm³	0.94	90,000 kg
Tensile Properties - Yield Strength (min.ave.)	ASTM D6693 Type IV	kN/m	22	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	40	
Tensile Properties – Break elongation (min.ave.)	ASTM D6693 Type IV	%	700	
Tear resistance (min.ave.)	ASTM D1004	N	187	20,000 kg
Puncture resistance (min.ave.)	ASTM D4833	N	480	20,000 kg
Stress Crack Resistance (min.)	ASTM D5397	h	500	GM 10 (GRI)
Carbon Black Content	ASTM D1603	%	2 – 3	9,000 kg
Carbon Black Dispersion	ASTM D5596	-	Note (1)	20,000 kg
Oxidative Induction Time Standard OIT (min.ave)	ASTM D3895 ASTM D5885	min	100	90,000kg
Oven Aging * Standard OIT (min.ave) High Pressure OIT (min.ave.)	ASTM D5721 ASTM D3895 ASTM D5885	%	 55 80	PER EACH FORMULATION
UV Resistance ** Standard OIT (min.ave.) High Pressure OIT (min.ave.)	ASTM D7238 ASTM D3895 ASTM D5885	%	Note (2) 50	PER EACH 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)