

TechGeo PRO LLDPE TXT 1.50 mm – GM17

TechGeo PRO LLDPE TXT Geomembrane series is manufactured by a Blown Film process which uses resins produced under world class quality controls and international standards.

The formulation of this geomembrane is composed of virgin resins that provide greater elongation and stabilized with the best additivies on the Market. As a result, it guarantees high durability and excelente mechanical properties and chemical compatibility.

TechGeo PRO LLDPE TXT has an automatic and state-of-the-art texturing process by injection of nitrogen gas and follows international manufacturing guidelines established by GRI GM-17, recommendation developed by the Geosynthetic Research Institute (GRI).

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

PROPERTIES	TEST METHOD	UNITY	1.50 mm 60 mils	TESTING FREQUENCY	
Thickness (min.ave.) Lowest individual of 8 in 10 values Lowest individual of 10 values	ASTM D5199	mm	-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/cm³	0.939	90,000 kg	
Tensile Properties – Break strength (min.ave.)	ASTM D6693 Type IV	kN/m	16	0.0001	
Tensile Properties – Break elongation (min.ave.)	ASTM D6693 Type IV	%	250	9,000 kg	
2% Modulus (max.)	ASTM D5323	N/mm	630	PER FORMULATION	
Tear resistance (min.ave.)	ASTM D1004	N	150	20,000 kg	
Puncture resistance (min.ave.)	ASTM D4833	N	300	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	100 400	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) 35	PER FORMULATION	

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

^{** (}Retained after 1.600hrs)



⁽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)