



# LLDPE Geomembrane : Black Double-Sided Textured

Product Specifications / Data Sheet

**GPF's LLDPE Double-Sided Textured Geomembrane** is a high quality, black coloured product that is manufactured in our state of the art Saudi Arabian facility. GPF uses 97.5% pure linear low density polyethylene virgin polymer and 2.5% carbon black with trace amounts of antioxidants and heat stabilizers.

**GPF's LLDPE Double-Sided Textured Geomembrane** is flexible with high elongation properties making it highly used in applications with potential subgrade movement.

**GPF's LLDPE Double-Sided Textured Geomembrane** exceeds the industry standard GRI GM17, as regularly tested in our full laboratory integrated into our factory.

Test Property	Unit	Test Method	Minimum Average Value (Per GRI GM17)			
Thickness <sup>(1)</sup>	mils	ASTM D 5199	40	60	80	100
Lowest individual (-10%)	mm		1.0	1.5	2.0	2.5
Asperity height	mm	ASTM D7466	0.40	0.40	0.40	0.40
Density	g/cm <sup>3</sup>	ASTM D 792	≥ 0.939	≥ 0.939	≥ 0.939	≥ 0.939
Strength at Break (Both Directions)	lb/in	ASTM D6693 Type IV Dumbbell, 2in/min	60	90	120	150
Elongation at Break (Both Directions)	%	Gage length 2in for Break Elongation	250	250	250	250
Tear Resistance	lb.	ASTM D 1004	22	33	44	55
Puncture Resistance	lb.	ASTM D 4833	44	66	88	110
Carbon Black Content	%	ASTM D 1603	2.0% - 3.0%			
Carbon Black Dispersion	Category	ASTM D 5596	Note (2)			
Oxidative Induction Time (Standard; S-OIT)	min	ASTM D 3895	100	100	100	100
Oxidative Induction Time (High Pressure; HP-OIT)	min	ASTM D 5885	400	400	400	400
UV Resistance HP OIT (% retained after 1600 hr)	%	GM11 ASTM D5885	> 35	> 35	> 35	> 35
<b>Roll dimensions</b>						
<b>Size A)</b>						
Roll Width (approx.) <sup>(3)</sup>	m	-----	23	23	23	23
Roll Length (approx.)	m	-----	600	400	300	240
Roll Area (approx.)	m <sup>2</sup>	-----	13,800	9,200	6,900	5,520
<b>Size B)</b>						
Roll Width (approx.) <sup>(3)</sup>	ft	-----	26	26	26	26
Roll Length (approx.)	ft	-----	525	350	265	210
Roll Area (approx.)	ft <sup>2</sup>	-----	13,650	9,100	6,890	5,460

**Notes:**

(1) One (1) measurement taken every 1 meter along roll width - 10% lowest individual of 10 values.

(2) Carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3.

(3) Roll Width and Length have a tolerance of ± 1%.

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