



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 ⁽¹⁾	mm	ASTM D 5199	1.0	1.5	2.0	2.5
Lowest individual (-10%)	mils		40	60	80	100
Asperity height	mm	ASTM D7466	0.40	0.40	0.40	0.40
Density	g/cm ³	ASTM D 792	≥ 0.939	≥ 0.939	≥ 0.939	≥ 0.939
Strength at Break (Both Directions)	N/mm	ASTM D6693 Type IV Dumbbell, 50mm/min	11	16	21	26
Elongation at Break (Both Directions)	%	Gage length 50mm for Break Elongation	250	250	250	250
Tear Resistance	N	ASTM D 1004	100	150	200	250
Puncture Resistance	N	ASTM D 4833	200	300	400	500
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 ResistanceHP OIT (% retained after 1600 hr)	%	GM11 ASTM D5885	> 35	> 35	> 35	> 35
Roll dimensions						
Size A)						
Roll Width (approx.) ⁽³⁾	m	-----	7	7	7	7
Roll Length (approx.)	m	-----	185	120	90	70
Roll Area (approx.)	m ²	-----	1,295	840	630	490
Size B)						
Roll Width (approx.) ⁽³⁾	m	-----	8	8	8	8
Roll Length (approx.)	m	-----	160	105	80	65
Roll Area (approx.)	m ²	-----	1,280	840	640	520

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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