

Megaplast Textured Geomembrane (Single-Sided)



MEGAPLAST

AT THE CORE:

MEGA-PLATINUM -LLDPE Textured is a co-extruded textured liner low density polyethylene (LLDPE) geomembrane available on one or both sides. It is manufactured from the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, flexibility and elongation properties .

An LLDPE geomembrane suitable for applications that require increased frictional resistance, flexibility and elongation properties

MEGA-PLATINUM - LLDPE TEXTURED S PRODUCTS

Technical Data Sheet

These product specifications meet or exceed GRI GM 17

Sr no.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGA-PLATINUM - LLDPE TEXTURED S 100	MEGA-PLATINUM - LLDPE TEXTURED S 150	MEGA-PLATINUM - LLDPE TEXTURED S 200	MEGA-PLATINUM - LLDPE TEXTURED S 250
1	Thickness - ((nom -5 %) min ave.) (Note5(a))	D 5994	mils	Every roll	40	60	80	100
	Lowest Individual for 8 out of 10 values (Note5(b))				36	54	72	90
	Lowest Individual reading for any of the 10 values (Note5(c))				34	51	68	85
2	Density (Max.)	D 792	g/cc	Every 200,000 lb	0.939	0.939	0.939	0.939
3	Tensile Properties (min.ave) (Note4)	D 6693 Type IV Dumbell , 2ipm						
	→Break strength		lb/in	Every 5th roll	60	90	120	150
	→Break Elongation		%		250	250	250	250
4	2% Modulus (Max.)	D 5323	lb/in	Per each formulation	2400	3600	4800	6000
5	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	22	33	44	56
6	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	47	70	92	115
7	Carbon Black Content (Range)	D 4218 / D 1603	%	Every 5th roll	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
8	Carbon Black Dispersion	D 5596	Category	Every 10th roll	Note 1	Note 1	Note 1	Note 1
9	Asperity Height (min ave)	D 7466	mils	Every 2nd roll	16	16	16	16
10	Oxidative Induction Time (min.ave) Standard -OIT	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	≥ 100	≥ 100	≥ 100	≥ 100
11	Oven Aging at 85 deg C. High Pressure -OIT (min.ave) - % retained after 90 days	D 5721 D 5885	%	Per each formulation	≥ 60	≥ 60	≥ 60	≥ 60
12	UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	≥ 35	≥ 35	≥ 35	≥ 35

TYPICAL ROLL DIMENSIONS (Note2)

Roll Width	feet	23.0	23.0	23.0
Roll Length	feet	530	370	195
Roll Area	Sq. Feet	12190	8510	5980

Note 1: Dispersion only applies to near spherical agglomerates 9 of 10 views shall be category 1 or 2 . No more than 1 view from category 3 .

Note 2: Roll length & widths have a tolerance of +/- 1% .

Note 3: All geomembranes have dimensional stability of +/- 2% when tested according to ASTM D 1204 .

Note 4 : Machine direction(MD) & Cross direction (XMD) average values should be on the basis of 5 specimens each direction.

Note 5 : (a) Minimum average core thickness is - 5% of the nominal thickness.

(b) lowest thickness for 8 out of 10 values is – 10% of the nominal value .

(c) lowest thickness for any of the 10 values is –15% of the nominal value.