



MEGAPLAST

Megaplast Textured Geomembrane (Single-Sided)

Megaplast High Density Polyethylene (HDPE) Geomembrane is manufactured with the highest quality resin specifically formulated and used in applications that require excellent chemical resistance and endurance properties.

AT THE CORE:

An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties

MEGA PLATINUM TEXTURED S 300

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr. No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGA PLATINUM TEXTURED S 300
1	Thickness - ((nom -5%) min. ave.) ^{(Note 7(a))}				3.0
	Lowest Individual for 8 out of 10 values ^{(Note 7(b))}	D 5994	mm	Every roll	2.7
	Lowest Individual reading for any of the 10 values ^{(Note 7(c))}				2.55
2	Density (min. Ave)	D 792	g/cc	Every 90,000 kg	0.940
3	Tensile Properties (min. ave) ^(Note 6)	D 6693 Type			
	Break Strength	IV Dumbbell	KN/M		33
	Yield Strength	,2ipm	KN/M	Every 5th roll	45
	Break Elongation	G.L. 50 mm	%		150
	Yield Elongation	G.L. 33 mm	%		12
4	Tear Resistance (Min. Ave)	D 1004	N.	Every 10th roll	374
5	Puncture Resistance (Min. Ave)	D 4833	N.	Every 10th roll	825
6	Carbon Black Content (Range)	D 4218/ D 1603	%	Every 5th roll	2.0-3.0
7	Carbon Black Dispersion	D 5596	Category	Every 10th roll	Note 1
8	Asperity Height (min. ave)	D 7466	mm	Every 2nd roll	Note 2
9	Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resin lots (one lot=90,000 kg)	500
10	Oxidative Induction Time (min. ave) Standard-OIT	D 3895 (at 200°C)	Minutes	Every 90,000 kg	>100
	OR High Pressure-OIT	D 5885 (at 150°C)			>500
11	Oven Aging at 85°C Standard-OIT (min. ave)-% retained after 90 days	D 5721 D 3895	%	Per each formulation	55
	OR High Pressure-OIT (min. ave) -% retained after 90 days	D 5721 D 5885			80
12	UV Resistance HP-OIT (min. ave)-% retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50

TYPICAL ROLL DIMENSIONS ^(Note3)

Rev. Date 14/06/2016	Roll Width, m	8.0
	Roll Length, m (As required by customer) or up to	50
	Roll Area, m ²	400

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 : 0.40 mm average

NOTE 3 : Roll length & widths have a tolerance of +/- 1%

NOTE 4 : All geomembranes have dimensional stability of +/- 2% when tested according to ASTM D 1204

NOTE 5 : NCTL for HD textured is conducted on representative smooth membrane sample

NOTE 6 : Machine direction (MD) & Cross direction (XMD) average values should be on the basis of 5 specimens each direction

NOTE 7 : (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

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