

## Megaplast Textured Geomembrane (Double-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.



## MEGAPLAST

### AT THE CORE:

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

## MEGAPLATINUM TEXTURED D 100

### Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAPLATINUM TEXTURED D 100	
1	Thickness - (nom -5 %) min ave.) (Note7(a))	D 5994	mils	Every roll	40	
	Lowest Individual for 8 out of 10 values (Note7(b))				36	
	Lowest Individual reading for any of the 10 values (Note7(c))				34	
2	Density (min ave)	D 792	g/cc	Every 200,000 lb	0.940	
	Melt Flow Index (MFI) , (190 °C / 2.16 kgf)	D 1238	g/10 min	Per batch / Lot	≤ 1.0	
3	<b>Tensile Properties (min.ave)</b> (Note6)	D 6693 Type IV Dumbell , 2ipm		Every 5th roll		
	→Break strength				lb/in	63
	→ Yield strength				lb/in	86
	→Break Elongation				%	150
	→Yield Elongation				%	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	28	
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	67	
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	mils	Every 2nd roll	Note 2	
9	Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resign lots (One lot = 200,000 lb)	500	
10	Oxidative Induction Time (min.ave)	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 100	
	Standard -OIT -- OR-- High Pressure -OIT	D 5885 (at 150 dig C)			> 500	
11	Oven Aging at 85 deg C. Standard -OIT ( min.ave) - % retained after 90 days --OR-- High Pressure -OIT ( min.ave) - % retained after 90 days	D 5721 D 3895	%	Per each formulation	55	
		D 5721 D 5885			80	
12	UV Resistance HP -OIT ( min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50	

Rev.3, date : Jan-2019

TYPICAL ROLL DIMENSIONS (Note3)	
Roll Width , feet	23.0
Roll Length , feet	530
Roll Area , Sq. Feet	12190

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: 16 mil 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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