

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.



MEGAPLAST

AT THE CORE:

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

MEGAPLATINUM TEXTURED S 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 S 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	Tensile Properties (min.ave) (Note6)	D 6693 Type IV Dumbbell , 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	mil	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) Standard -OIT	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 100		
	-- 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	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		

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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.

H.O.: 21-C, Mittal Towers, 2nd Floor, C-Wing, Nariman Point, Mumbai - 400 021, INDIA
Tel. No.: +91-22-61066000 Email: geomembranes@megaplast.in Website: www.megaplast.in