

# 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

## MEGAGOLD PLUS TEXTURED D 300

### Technical Data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAGOLD PLUS TEXTURED D 300			
1	Thickness - ((nom -10 %) min ave.)	D 5994	mils	Every roll	120			
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> (Note2)	D 6693 Type IV Dumbell , 2ipm	Every 5th roll					
	→Break strength					lb/in	188	
	→ Yield strength					lb/in	211	
	→Break Elongation					G.L. 50mm	%	150
	→Yield Elongation					G.L. 33mm	%	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	67			
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	148			
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	12			
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			

### TYPICAL ROLL DIMENSIONS (Note3)

Roll Width	feet	23.0
Roll Length	feet	160
Roll Area	Sq. Feet	3680

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

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 .

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