

## 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

## MEGADIAMOND TEXTURED S 100

### Technical Data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGADIAMOND TEXTURED S 300			
1	Thickness - (min ave.)	D 5994	mm	Every roll	3.0			
2	Density (min ave.)	D 792	g/cc	Every 90,000 kg	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> (Note5)	D 6693 Type IV Dumbbell , 2ipm	Every 5th roll					
	→Break strength						kN/m	33
	→ Yield strength						kN/m	45
	→Break Elongation						%	150
	→Yield Elongation						%	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	0.40			
9	Stress Crack Resistance (Note 4) (SP - Notched Constant Tensile Load )	D 5397 (Appendix)	Hrs.	Each two resign lots (One lot = 90,000 kgs)	500			
10	Oxidative Induction Time (min.ave ) Standard -OIT	D 3895 ( at 200 dig C )	Minutes	Every 90,000 kg	> 150			
	-- OR--- High Pressure -OIT	D 5885 ( at 150 dig C )			> 750			
11	Oven Aging at 85 deg C. Standard -OIT ( min.ave) - % retained after 90 days	D 5721 D 3895	%	Per each formulation	55			
	---OR----	D 5721			80			
	High Pressure -OIT ( min.ave) - % retained after 90 days	D 5885						
12	UV Resistance	D 7238	%	Per each formulation	50			
	HP -OIT ( min.ave) - % retained after 1600 hrs	D 5885						

### TYPICAL ROLL DIMENSIONS (Note2)

Roll Width ,	Mtrs	8.0
Roll Length ,	Mtrs	50
Roll Area ,	Sq. Mtrs	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: 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 : NCTL for HD textured is conducted on representative smooth membrane sample .

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

Rev. date :  
Jun-2020

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