

# 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

## MEGAGOLD PLUS TEXTURED S 100

### Technical Data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAGOLD PLUS TEXTURED S 100
1	Thickness - ((nom -10 %) min ave.)	D 5994	mils	Every roll	40
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		63
	→ Yield strength		lb/in		68
	→Break Elongation		%		150
	→Yield Elongation		%		12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	22
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	56
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 )	D 3895	Minutes	Every 200,000 lb	> 100
	Standard -OIT	( at 200 dig C )			
	-- OR--- High Pressure -OIT	D 5885 ( at 150 dig C)			> 500
11	Oven Aging at 85 deg C.	D 5721	%	Per each formulation	55
	Standard -OIT ( min.ave) - % retained after 90 days	D 3895			
	---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	530
Roll Area	Sq. Feet	12190

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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 .

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