

# 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 PRODUCTS

### Technical Data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAGOLD PLUS TEXTURED D 100	MEGAGOLD PLUS TEXTURED D 150	MEGAGOLD PLUS TEXTURED D 200	MEGAGOLD PLUS TEXTURED D 250	MEGAGOLD PLUS TEXTURED D 300	
1	Thickness - ((nom -10 %) min ave.)	D 5994	mils	Every roll	40	60	80	100	120	
2	Density (min ave)	D 792	g/cc	Every 200,000 lb	0.940	0.940	0.940	0.940	0.940	
	Melt Flow Index (MFI) ( 190°C/2.16 kgf)	D 1238	g /10 min	Per batch / lot	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	
3	<b>Tensile Properties (min.ave)</b> (Note2)	D 6693 Type IV Dumbbell , 2ipm		Every 5th roll						
	→Break strength		lb/in		63	91	120	154	188	
	→ Yield strength		lb/in		68	108	148	177	211	
	→Break Elongation		G.L. 50mm		%	150	150	150	150	150
	→Yield Elongation		G.L. 33mm		%	12	12	12	12	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	22	34	50	56	67	
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	56	79	108	126	148	
6	Carbon Black Content (Range)	D 4218 / D 1603	%	Every 5th roll	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	
7	Carbon Black Dispersion	D 5596	Category	Every 10th roll	Note 1	Note 1	Note 1	Note 1	Note 1	
8	Asperity Height (min ave)	D 7466	mils	Every 2nd roll	12	12	12	12	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	500	500	500	500	
10	Oxidative Induction Time (min.ave) Standard -OIT	D 3895 ( at 200 dig C )	Minutes	Every 200,000 lb	> 100	> 100	> 100	> 100	> 100	
	--OR-- High Pressure -OIT	D 5885 ( at 150 dig C )			> 500	> 500	> 500	> 500	> 500	
11	Oven Aging at 85 deg C. Standard -OIT ( min.ave) - % retained after 90 days	D 5721 D 3895	%	Per each formulation	55	55	55	55	55	
	---OR--- High Pressure -OIT ( min.ave) - % retained after 90 days	D 5721 D 5885			80	80	80	80	80	
12	UV Resistance HP -OIT ( min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50	50	50	50	50	

### TYPICAL ROLL DIMENSIONS (Note3)

		23.0	23.0	23.0	23.0	23.0
Roll Width	feet					
Roll Length	feet	530	370	260	195	160
Roll Area	Sq. Feet	12190	8510	5980	4485	3680

Rev. date: Jan-2019

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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