

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

MEGADIAMOND TEXTURED D PRODUCTS

Technical Data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGADIAMOND TEXTURED D 100	MEGADIAMOND TEXTURED D 150	MEGADIAMOND TEXTURED D 200	MEGADIAMOND TEXTURED D 250	MEGADIAMOND TEXTURED D 300	
1	Thickness - (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	Tensile Properties (min.ave) ^(Note6)	D 6693 Type IV Dumbell , 2ipm		Every 5th roll						
	→Break strength				lb/in	80	120	150	185	220
	→ Yield strength				lb/in	86	131	171	217	257
	→Break Elongation				%	150	150	150	150	150
	→Yield Elongation				%	12	12	12	12	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	30	44	60	75	90	
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	67	101	135	157	185	
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	Note 2	Note 2	Note 2	Note 2	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	500	500	500	500	
10	Oxidative Induction Time (min.ave) Standard -OIT	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 150	> 150	> 150	> 150	> 150	
	-- OR--- High Pressure -OIT	D 5885 (at 150 dig C)			> 750	> 750	> 750	> 750	> 750	
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	

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TYPICAL ROLL DIMENSIONS ^(Note3)					
Roll Width ,	feet	23.0	23.0	23.0	23.00
Roll Length ,	feet	530	370	260	195
Roll Area ,	Sq. Feet	12190	8510	5980	4485

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.