

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 PRODUCTS

Technical Data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGADIAMOND TEXTURED S 100	MEGADIAMOND TEXTURED S 150	MEGADIAMOND TEXTURED S 200	MEGADIAMOND TEXTURED S 250	MEGADIAMOND TEXTURED S 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	lb/in	Every 5th roll	80	120	150	185	220
	→ Break strength				86	131	171	217	257
	→ Yield strength	150	150		150	150	150		
	→ Break Elongation	12	12		12	12	12		
	→ Yield Elongation	G.L. 50mm	%						
		G.L. 33mm	%						
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	mil	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 -- OR---	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 150	> 150	> 150	> 150	> 150
	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 ---OR----	D 5721 D 3895	%	Per each formulation	55	55	55	55	55
	High Pressure -OIT (min.ave) - % retained after 90 days	D 5721 D 5885			80	80	80	80	80
	UV Resistance	D 7238			50	50	50	50	50
12	HP -OIT (min.ave) - % retained after 1600 hrs	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.