

Megaplast Smooth Geomembrane

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 PRODUCTS

Technical data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAGOLD PLUS 75	MEGAGOLD PLUS 100	MEGAGOLD PLUS 150	MEGAGOLD PLUS 200	MEGAGOLD PLUS 250	MEGAGOLD PLUS 300
1	Thickness - (Nominal Avg.: - 10%)	D 5199	mils	Every roll	30	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	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	≤ 1.0
3	Tensile Properties (min.ave) (Note4)	D 6693 Type IV Dumbell , 2ipm	lb/in	Every 5th roll	108	143	217	291	365	428
	→Break strength				57	74	114	154	200	228
	→Yield strength				700	700	700	700	700	700
	→Break Elongation				13	13	13	13	13	13
	→Yield Elongation				G.L. 50mm	%				
	G.L. 33mm	%								
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	18	24	36	47	59	71
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	45	65	92	130	157	181
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	2.0 - 3.0
7	Carbon Black Dispersion	D 5596	Category	Every 10th roll	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
8	Stress Crack Resistance (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resin lots (One lot = 200,000 lb)	500	500	500	500	500	500
9	Oxidative Induction Time (min.ave) Standard -OIT	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 100	> 100	> 100	> 100	> 100	> 100
	--OR--- High Pressure -OIT	D 5885 (at 150 dig C)			> 500	> 500	> 500	> 500	> 500	> 500
10	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	55
	---OR--- High Pressure -OIT (min.ave) - % retained after 90 days	D 5721 D 5885			80	80	80	80	80	80
11	UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50	50	50	50	50	50

TYPICAL ROLL DIMENSIONS (Note2)

		23.0	23.0	23.0	23.0	23.0	23.0
Roll Width	feet						
Roll Length	feet	920	690	460	345	280	230
Roll Area	Sq. Feet	21160	15870	10580	7935	6440	5281

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

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