

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.



AT THE CORE:

An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties

MEGAPLATINUM TEXTURED S 300

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAPLATINUM TEXTURED S 300
	Thickness - ((nom -5 %) min ave.) (Note7(a))			Every roll	120
1	Lowest Individual for 8 out of 10 values (Note7(b))	D 5994	mils		108
	Lowest Individual reading for any of the 10 values (Note7(c))				102
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
	Tensile Properties (min.ave) (Note6)	D 6602 Thurs IV		Every 5th roll	
3	→Break strength	D 6693 Type IV Dumbell , 2ipm	lb/in		188
	→ Yield strength		lb/in		257
	→Break Elongation	G.L. 50mm	%		150
	→Yield Elongation	G.L. 33mm	%		12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	84
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	185
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	mil	Every 2nd roll	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
10	Oxidative Induction Time (min.ave) Standard -OIT OR High Pressure -OIT	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 100
10		D 5885 (at 150 dig C)			> 500
11	Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 daysOR High Pressure -OIT (min.ave) - % retained after 90 days	D 5721 D 3895	%	Per each formulation	55
11		D 5721 D 5885			80
12	UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50

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TYPICAL ROLL DIMENSIONS (Note3)					
Roll Width, feet	23.00				
Roll Length, feet	160				
Roll Area, Sq. Feet	3680				

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 \pm 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.

Note 7 : (a) Minimum average core thickness is -5% of the nominal thickness.

(b) lowest thickness for 8 out of 10 values is – 10% of the nominal value .

(c) lowest thickness for any of the 10 values is –15% of the nominal value.