

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.



AT THE CORE:

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

MEGAPLATINUM 100

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr. No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAPLATINUM 100
1.	Thickness - (min ave.) Lowest Individual Reading of 10 values	D 5199	mils	Every roll	40
					36
2.	Density (Min. Ave)	D 792	g/cc	Every 2,00,000 lb	0.940
3.	Tensile Properties (min. ave) ^(Note 4)	D 6693 Type IV Dumbell, 2ipm	lb/in	Every 5th roll	159.88
	▶ Break Strength				85.65
	▶ Yield Strength				700
	▶ Break Elongation				13
	▶ Yield Elongation	G.L. 33mm	%		
4.	Tear Resistance (min. ave)	D 1004	lb	Every 10th roll	28
5.	Puncture Resistance (min. ave)	D 4833	lb	Every 10th roll	78.68
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.	Stress Crack Resistance (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resign lots (One lot = 200,000 lb)	500
9.	Oxidative Induction Time (min. ave) Standard - OIT --OR-- High Pressure - OIT	D 3895 (at 200°C) D 5885 (at 150°C)	Minutes	Every 200,000 lb	> 100
					> 500
10.	Oven Aging at 85°C Standard - OIT (min. ave)- % retained after 90 days --OR-- High Pressure - OIT (min. ave) - % retained after 90 days	D 5721 D 3895 D 5721 D 5885	%	Per each formulation	55
					80
11.	UV Resistance HP - OIT (min. ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50

Rev3 date: 18-02-2021	Typical Roll Dimension ^(Note 2)	
	Roll Width, ft	23.5
	Roll Length, ft	840
	Roll Area, Sq. ft	19740

Note 1 : Dispersion only applies to near spherical agglomerates 9 to 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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