



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 300

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr. No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGAPLATINUM 300
1	Thickness - (min. ave) Lowest individual Reading of 10 values	D 5199	mm	Every roll	3.0 2.70
2	Density (min. Ave)	D 792	g/cc	Every 90,000 kg	0.940
3	Tensile Properties (min. ave) ^(Note 4)	D 6693 Type			
	Break Strength	IV Dumbbell	KN/M		85
	Yield Elongation	,2ipm	KN/M	Every 5th roll	45
	Break Elongation	G.L. 50 mm	%		700
	Yield Elongation	G.L. 33 mm	%		13
4	Tear Resistance (Min. Ave)	D 1004	N.	Every 10th roll	374
5	Puncture Resistance (Min. Ave)	D 4833	N.	Every 10th roll	960
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 = 90,000 kgs)	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 90,000 kg	> 100 > 500
10	Oven Aging 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
TYPICAL ROLL DIMENSIONS ^(Note2)					
Rev. Date 14/06/2016	Roll Width, m				8.0
	Roll Length, m				70
	Roll Area, m ²				560

- 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