



# MEGAPLAST

## 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 (Metric)	Testing Frequency	MEGAPLATINUM 100
1	Thickness (Min. Ave.) Lowest Individual Reading of 10 values	D 5199	mm	Every roll	1.0 0.90
2	Density (min. Ave)	D 792	g/cc	Every 90,000 kg	0.940
3	Thickness Properties (min. ave) <sup>(Note 4)</sup>	D 6693 Type			
	Break Strength	IV Dumbbell	KN/M		28
	Yield Elongation	,2ipm	KN/M	Every 5th roll	15
	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	125
5	Puncture Resistance (Min. Ave)	D 4833	N.	Every 10th roll	350
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 <sup>(Note2)</sup>					
Rev. Date 14/06/2016	Roll Width, m				8.0
	Roll Length, m				210
	Roll Area, m <sup>2</sup>				1680

- 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

**H.O.:** 21-C, Mittal Towers, 2nd Floor, C-Wing, Nariman Point, Mumbai - 400 021, INDIA  
**Tel. No.:** +91-22-61066000 **Email:** geomembranes@megaplast.in **Website:** www.megaplast.in