



## 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

## MEGADIAMOND 100

### Technical Data Sheet

This product specifications exceed GRI GM 13

Sr. No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGA DIAMOND 100
1	Thickness (Min.)	D 5199	mm	Every roll	1.0
	Lowest individual Reading of 10 values				1.0
2	Density (Min. Ave.)	D 792	g/cc	Every 90,000 kg	0.940
3	Tensile Properties (min. ave) <sup>(Note 4)</sup>	D 6693 Type IV			
	Break Strength	Dumbell, 2ipm	KN/M	Every 5th roll	28
	Yield Strength		KN/M		15
	Break Strength	G.L. 50mm	%		700
	Yield Strength	G.L. 33mm	%		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
	Oxidative Induction Time (min. ave) Standard-OIT	D 3895 (at 200°C)	Minutes	Every 90,000 kg	>100
		D 5885 (at 150°C)			>500
10	Oven Aging at 85°C Standard-OIT (min. ave)-% retained after 90 days	D 5721 D 3895	%	Per each formulation	55
	OR High Pressure - OIT (min. ave)-% retained after 90 days	D 5721 D 5885			80
11	UV Resistance HP-OIT (min. ave)-% retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50
Rev. Date 14/06/2016	Typical Roll Dimensions <sup>(Note 2)</sup>				
	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