



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 300

Technical Data Sheet

This product specifications exceed GRI GM 13

Sr. No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGA DIAMOND 300
1	Thickness (Min.)	D 5199	mm	Every roll	3.0
	Lowest individual Reading of 10 values				3.0
2	Density (Min. Ave.)	D 792	g/cc	Every 90,000 kg	0.940
3	Tensile Properties (min. ave) ^(Note 4)	D 6693 Type IV			
	Break Strength	Dumbell, 2ipm	KN/M	Every 5th roll	85
	Yield Strength		KN/M		45
	Break Strength	G.L. 50mm	%		700
Yield Strength	G.L. 33mm	%	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
	Oxidative Induction Time (min. ave) Standard-OIT	D 3895 (at 200°C)	Minutes	Every 90,000 kg	>100
OR High Pressure - OIT	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 ^(Note 2)				
	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

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