

# 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.



## MEGAPLAST

### 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 (English)	Testing Frequency	MEGADIAMOND 100		
1	Thickness - (min. )	D 5199	mils	Every roll	40		
	Lowest Individual Reading of 10 values				40		
2	Density (min. ave)	D 792	g/cc	Every 200,000 lb	0.940		
	Melt Flow Index (MFI) , (190 °C / 2.16 kgf)	D 1238	g/10 min	Per batch / Lot	≤ 1.0		
3	<b>Tensile Properties (min.ave)</b> <sup>(Note4)</sup>	D 6693 Type IV Dumbell , 2ipm	Every 5th roll				
	→Break strength					lb/in	171
	→ Yield strength					lb/in	91
	→Break Elongation					%	700
	→Yield Elongation					%	13
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	30		
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	81		
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	D 3895 ( at 200 dig C )	Minutes	Every 200,000 lb	> 150		
	-- OR--- High Pressure -OIT	D 5885 ( at 150 dig C )			> 750		
10	Oven Aging at 85 deg 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		

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TYPICAL ROLL DIMENSIONS <sup>(Note2)</sup>	
Roll Width ,	feet 23.0
Roll Length ,	feet 690
Roll Area ,	Sq. Feet 15870

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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