

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 50

Technical data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGADIAMOND 50
1	Thickness - (minimum)	D 5199	mm	Every roll	0.50
2	Density (min. ave)	D 792	g/cc	Every 90,000 kg	0.940
3	Tensile Properties (min.ave) (Note4)	D 6693 Type IV Dumbell , 2ipm G.L. 50mm G.L. 33mm	kN/m kN/m % %	Every 5th roll	13 7 700 12
	→Break strength				
	→ Yield strength				
	→Break Elongation				
	→Yield Elongation				
4	Tear Resistance (min.ave)	D 1004	N	Every 10th roll	63
5	Puncture Resistance (min ave)	D 4833	N	Every 10th roll	160
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	Oxidative Induction Time (min.ave) Standard -OIT -- OR-- High Pressure -OIT	D 3895 (at 200 dig C) D 5885 (at 150 dig C)	Minutes	Every 90,000 kg	> 100 > 500
9	Oven Aging at 85 deg 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
10	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 (Note2)	
Roll Width ,	m
Roll Length ,	m
Roll Area ,	m ²

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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