

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 (English)	Testing Frequency	MEGADIAMOND 50
1	Thickness - (min)	D 5199	mils	Every roll	20
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	Tensile Properties (min.ave) (Note4)	D 6693 Type IV Dumbell , 2ipm G.L. 50mm G.L. 33mm	lb/in lb/in % %	Every 5th roll	74 40 700 12
	→Break strength				
	→ Yield strength				
	→Break Elongation				
	→Yield Elongation				
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	14
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	36
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	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 100
	-- OR--- High Pressure -OIT	D 5885 (at 150 dig C)			> 500
9	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
10	UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50

TYPICAL ROLL DIMENSIONS (Note2)

Roll Width , feet	23.00
Roll Length , feet	1378
Roll Area , Sq. Feet	31694

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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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