



Megaplast Smooth Geomembrane

MEGAPLAST

AT THE CORE:

MEGA-PLATINUM -LLDPE is a smooth linear low density polyethylene (LLDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembrane. This product is used in applications that require increased flexibility and elongation properties .

An LLDPE Geomembrane suitable for applications that require increased flexibility and elongation properties .

MEGA-PLATINUM- LLDPE 50

Technical Specification

These product specifications meet or exceed GRI GM 17

Sr.no.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGA - PLATINUM - LLDPE 50
1	Thickness - (min. ave)	D 5199	mm	Every roll	0.5
	Lowest Individual Reading of 10 values				0.45
2	Density (max.)	D 792	g/cc	Every 90,000 kg	0.939
3	Tensile Properties (min.ave) ^(Note4)	D 6693 Type IV Dumbell , 2ipm	KN/M	Every 5th roll	13
	→Break strength				> 800
	→Break Elongation				G.L. 50mm
	2% Modulus (Max)	D 5323	N/mm	Per formulation	210
4	Tear Resistance (min.ave)	D 1004	N	Every 10th roll	50
5	Puncture Resistance (min ave)	D 4833	N	Every 10th roll	130
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(OIT) Standard -OIT (min.ave) ---OR--- High Pressure -OIT (min.ave)	D 3895 (at 200 dig C)	Minutes	Every 90,000 kg	> 100
		D 5885 (at 150 dig C)	Minutes		> 400
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	%	Per formulation	35
		D 5721 D 5885			60
10	UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per formulation	35

Rev. Date : Jun2020

TYPICAL ROLL DIMENSIONS ^(Note2)		
Roll Width	m	8.0 (By Fold)
Roll Length	m	200
Roll Area	m ²	1600

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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