



# MEGAPLAST

## Megaplast Smooth Geomembrane

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 300

#### Technical Specification

These product specifications meet or exceed GRI GM 17

Sr.no.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGA-PLATINUM - LLDPE 300
1	Thickness - (min. ave)	D 5199	mils	Every roll	120
	Lowest Individual Reading of 10 values				108
2	Density (max.)	D 792		Every 200,000 lb	0.939
3	<b>Tensile Properties (min.ave)</b> <sup>(Note4)</sup>	D 6693 Type IV Dumbell , 2ipm	lb/in	Every 5th roll	462
	→Break strength				> 800
	→Break Elongation				G.L. 50mm
	2% Modulus (Max)	D 5323	lb/in	Per formulation	7200
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	66
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	168
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)	D 3895 ( at 200 dig C )	Minutes	Every 200,000 lb	> 100
	---OR--- High Pressure -OIT ( min.ave)	D 5885 ( at 150 dig C )	Minutes		> 400
9	Oven Aging at 85 deg C. Standard -OIT ( min.ave) - % retained after 90 days	D 5721 D 3895	%	Per formulation	35
	---OR--- High Pressure -OIT ( min.ave) - % retained after 90 days	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 <sup>(Note2)</sup>		
Roll Width	feet	23.0
Roll Length	feet	213
Roll Area	Sq. Feet	4899

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.