

Megaplast Textured Geomembrane (Single-Sided)



AT THE CORE:

An LLDPE geomembrane suitable for applications that require increased frictional resistance, flexibility and elongation properties

MEGA-PLATINUM -LLDPE Textured is a co-extruded textured liner low density polyethylene (LLDPE) geomembrane available on one or both sides. It is manufactured from the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, flexibility and elongation properties .

MEGA-PLATINUM - LLDPE TEXTURED S 300

Technical Data Sheet

These product specifications meet or exceed GRI GM 17

Sr no.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGA-PLATINUM - LLDPE TEXTURED S 300	
1	Thickness - ((nom -5 %) min ave.) (Note5(a))	D 5994	mm	Every roll	3.0	
	Lowest Individual for 8 out of 10 values (Note5(b))				2.7	
	Lowest Individual reading for any of the 10 values (Note5(c))				2.55	
2	Density (Max.)	D 792	g/cc	Every 90,000 kg	0.939	
	Melt Flow Index (MFI) (190°C/2.16 kgf)	D 1238	g/10 min	Per batch	≤ 1.0	
3	Tensile Properties (min.ave) (Note4)	D 6693 Type IV Dumbell , 2ipm	kN/m	Every 5th roll	31	
	→Break strength					250
	→Break Elongation					G.L. 50mm
4	2% Modulus (Max.)	D 5323	N/mm	Per each formulation	1260	
5	Tear Resistance (min.ave)	D 1004	N	Every 10th roll	300	
6	Puncture Resistance (min ave)	D 4833	N	Every 10th roll	600	
7	Carbon Black Content (Range)	D 4218 / D 1603	%	Every 5th roll	2.0 - 3.0	
8	Carbon Black Dispersion	D 5596	Category	Every 10th roll	Note 1	
9	Asperity Height (min ave)	D 7466	mm	Every 2nd roll	0,40	
10	Oxidative Induction Time (min.ave) Standard -OIT	D 3895 (at 200 dig C)	Minutes	Every 90,000 kg	≥ 100	
11	Oven Aging at 85 deg C.	D 5721	%	Per each formulation	≥ 60	
	High Pressure -OIT (min.ave) - % retained after 90 days	D 5885				
12	UV Resistance	D 7238	%	Per each formulation	≥ 35	
	HP -OIT (min.ave) - % retained after 1600 hrs	D 5885				

Rev3. Date : Jun2020

TYPICAL ROLL DIMENSIONS (Note2)		
Roll Width	m	8.0
Roll Length	m	50
Roll Area	m ²	400

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.

Note 5 : (a) Minimum average core thickness is - 5% of the nominal thickness.

(b) lowest thickness for 8 out of 10 values is - 10% of the nominal value .

(c) lowest thickness for any of the 10 values is -15% of the nominal value.