

Megaplast Textured Geomembrane (Double - Sided)

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.



AT THE CORE:

An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties

MEGAPLatinum TEXTURED D 100

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr. No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAPLatinum TEXTURED D 100
1.	Thickness - ((Nom - 5% min ave.) ^{(Note 7(a))}	D 5994	mils	Every roll	40
	Lowest Individual for 8 out of 10 values ^{(Note 7(b))}				36
	Lowest Individual reading for any of the 10 values ^{(Note 7(b))}				34
2.	Density (Min. Ave)	D 792	g/cc	Every 2,00,000 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) ^(Note 6)	D 6693 Type IV Dumbell, 2ipm	lb/in	Every 5th roll	63
	▶ Break Strength				86
	▶ Yield Strength				150
	▶ Break Elongation				12
	▶ Yield Elongation	G.L. 33mm	%		
4.	Tear Resistance (min. ave)	D 1004	lb	Every 10th roll	28
5.	Puncture Resistance (min. ave)	D 4833	lb	Every 10th roll	67
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.	Asperity Height (min ave)	D 7466	mil	Every 2nd roll	Note 2
9.	Stress Crack Resistance ^(Note 5) (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resign lots (One lot = 200,000 lb)	500
10.	Oxidative Induction Time (min. ave) Standard - OIT	D 3895 (at 200°C)	Minutes	Every 200,000 lb	> 100
	--OR-- High Pressure - OIT	D 5885 (at 150°C)			> 500
11.	Oven Aging at 85°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

12.	UV Resistance	D 7238	%	Per each formulation	50
	HP - OIT (min. ave) - % retained after 1600 hrs	D 5885			

Rev4 date: Nov - 2019	Typical Roll Dimension ^(Note 3)	
	Roll Width, ft	23.5
	Roll Length, ft	710
	Roll Area, Sq. ft	16685

Note 1 : Dispersion only applies to near spherical agglomerates 9 to 10 views shall be category 1 or 2. No more than 1 view from category 3.

Note 2 : 16 mil average.

Note 3 : Roll length & widths have a tolerance of +/- 1%.

Note 4 : All geomembranes have dimensional stability of +/- 2% when tested according to ASTM D 1204.

Note 5 : NCTL for HD textured is conducted on representative smooth membrane sample.

Note 6 : Machine direction (MD) & Cross direction (XMD) average values should be on the basis of 5 specimens each direction.

Note 7 : (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.

Megaplast USA Inc.