

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.



MEGAPLAST

AT THE CORE:

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

MEGAGOLD PLUS TEXTURED D 150

Technical Data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAGOLD PLUS TEXTURED D 150
1	Thickness - ((nom -10 %) min ave.)	D 5994	mils	Every roll	60
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) (Note2)	D 6693 Type IV Dumbell , 2ipm		Every 5th roll	
	→Break strength		lb/in		91
	→ Yield strength		lb/in		108
	→Break Elongation		%		150
	→Yield Elongation		%		12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	34
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	79
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	mils	Every 2nd roll	12
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 dig C)	Minutes	Every 200,000 lb	> 100
	-- OR---	D 5885			> 500
	High Pressure -OIT	(at 150 dig C)			
11	Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 days	D 5721	%	Per each formulation	55
	---OR---	D 3895			
	High Pressure -OIT (min.ave) - % retained after 90 days	D 5721			80
12	UV Resistance	D 7238	%	Per each formulation	50
	HP -OIT (min.ave) - % retained after 1600 hrs	D 5885			

TYPICAL ROLL DIMENSIONS (Note3)

Roll Width	feet	23.0
Roll Length	feet	370
Roll Area	Sq. Feet	8510

Rev. date :
Jan-2019

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

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 .

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