

Megaplast Textured Geomembrane (Single-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 S 300

Technical Data Sheet

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGAGOLD PLUS TEXTURED S 300	
1	Thickness - ((nom -10 %) min ave.)	D 5994	mils	Every roll	120	
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		188	
	→ Yield strength		lb/in		211	
	→Break Elongation		G.L. 50mm		%	150
	→Yield Elongation		G.L. 33mm		%	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	67	
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	148	
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)	D 3895	Minutes	Every 200,000 lb	> 100	
	Standard -OIT	(at 200 dig C)				
	-- OR--- High Pressure -OIT	D 5885 (at 150 dig C)			> 500	
11	Oven Aging at 85 deg C.	D 5721	%	Per each formulation	55	
	Standard -OIT (min.ave) - % retained after 90 days	D 3895				
	---OR--- High Pressure -OIT (min.ave) - % retained after 90 days	D 5721 D 5885			80	
12	UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs	D 7238 D 5885	%	Per each formulation	50	

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TYPICAL ROLL DIMENSIONS (Note3)		
Roll Width	feet	23.0
Roll Length	feet	160
Roll Area	Sq. Feet	3680

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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