

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

MEGADIAMOND TEXTURED S 100

Technical Data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (Metric)	Testing Frequency	MEGADIAMOND TEXTURED S 100		
1	Thickness - (min ave.)	D 5994	mm	Every roll	1.0		
2	Density (min ave)	D 792	g/cc	Every 90,000 kg	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) (Note5)	D 6693 Type IV Dumbell , 2ipm G.L. 50mm G.L. 33mm		Every 5th roll			
	→Break strength					kN/m	11
	→Yield strength					kN/m	15
	→Break Elongation					%	150
	→Yield Elongation					%	12
4	Tear Resistance (min.ave)	D 1004	N	Every 10th roll	125		
5	Puncture Resistance (min ave)	D 4833	N	Every 10th roll	300		
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	mm	Every 2nd roll	0.40		
9	Stress Crack Resistance (Note 4) (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resign lots (One lot = 90,000 kgs)	500		
10	Oxidative Induction Time (min.ave) Standard -OIT	D 3895 (at 200 dig C)	Minutes	Every 90,000 kg	> 150		
	-- OR-- High Pressure -OIT	D 5885 (at 150 dig C)			> 750		
11	Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 days	D 5721 D 3895	%	Per each formulation	55		
	---OR----	D 5721			80		
	High Pressure -OIT (min.ave) - % retained after 90 days	D 5885					
12	UV Resistance	D 7238	%	Per each formulation	50		
	HP -OIT (min.ave) - % retained after 1600 hrs	D 5885					

TYPICAL ROLL DIMENSIONS (Note2)

Roll Width ,	Mtrs	8.0
Roll Length ,	Mtrs	150
Roll Area ,	Sq. Mtrs	1200

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

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

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