

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.



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 150		
1	Thickness - (min ave.)	D 5994	mm	Every roll	1.5		
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 Dumbbell , 2ipm	Every 5th roll				
	→Break strength					kN/m	16
	→ Yield strength					kN/m	23
	→Break Elongation					%	150
	→Yield Elongation					%	12
4	Tear Resistance (min.ave)	D 1004	N	Every 10th roll	187		
5	Puncture Resistance (min ave)	D 4833	N	Every 10th roll	450		
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					

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TYPICAL ROLL DIMENSIONS (Note2)		
Roll Width ,	Mtrs	8.0
Roll Length ,	Mtrs	110
Roll Area ,	Sq. Mtrs	880

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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