



MEGAPLAST

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 300

Technical Data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGADIAMOND TEXTURED S 300	
1	Thickness - (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) (Note6)	D 6693 Type IV Dumbell , 2ipm		Every 5th roll		
	→Break strength		lb/in		220	
	→ Yield strength		lb/in		257	
	→Break Elongation		G.L. 50mm		%	150
	→Yield Elongation		G.L. 33mm		%	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	90	
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	185	
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 dig C)	Minutes	Every 200,000 lb	> 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--- 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	

Rev3, date :
Jan-2019

TYPICAL ROLL DIMENSIONS (Note3)	
Roll Width , feet	23.00
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: 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.

H.O.: 21-C, Mittal Towers, 2nd Floor, C-Wing, Nariman Point, Mumbai - 400 021, INDIA
Tel. No.: +91-22-61066000 Email: geomembranes@megaplast.in Website: www.megaplast.in