

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

MEGADIAMOND TEXTURED D 200

Technical Data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGADIAMOND TEXTURED D 200		
1	Thickness - (min ave.)	D 5994	mils	Every roll	80		
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	150
	→ Yield strength	lb/in				171	
	→Break Elongation	G.L. 50mm				%	150
	→Yield Elongation	G.L. 33mm				%	12
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	60		
5	Puncture Resistance (min ave)	D 4833	lb	Every 10th roll	135		
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 --OR-- High Pressure -OIT	D 3895 (at 200 dig C)	Minutes	Every 200,000 lb	> 150		
		D 5885 (at 150 dig C)			> 750		
11	Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 days --OR-- High Pressure -OIT (min.ave) - % retained after 90 days	D 5721 D 3895	%	Per each formulation	55		
		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 260
Roll Area ,	Sq. Feet 5980

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.