

Megaplast Smooth Geomembrane

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 250

Technical data Sheet

This product specifications exceed GRI GM 13

Sr.No.	Properties	Test Method (ASTM)	Unit (English)	Testing Frequency	MEGADIAMOND 250		
1	Thickness - (min.)	D 5199	mils	Every roll	100		
	Lowest Individual Reading of 10 values				100		
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) (Note4)	D 6693 Type IV Dumbell , 2ipm	Every 5th roll				
	→Break strength				lb/in	423	
	→ Yield strength				lb/in	228	
	→Break Elongation				G.L. 50mm	%	700
	→Yield Elongation				G.L. 33mm	%	13
4	Tear Resistance (min.ave)	D 1004	lb	Every 10th roll	74		
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	Stress Crack Resistance (SP - Notched Constant Tensile Load)	D 5397 (Appendix)	Hrs.	Each two resign lots (One lot = 200,000 lb)	500		
9	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		
10	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		
11	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 (Note2)	
Roll Width , feet	23.0
Roll Length , feet	280
Roll Area , Sq. feet	6440

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