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.



AT THE CORE:

An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties

MEGAPLATINUM TEXTURED D 150

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

Sr. No. Properties	ICCII	incai Data Siicci		rms product specifications meet or exceed GM GM 13		
min ave.] five 7(a) Lowest Individual for 8 out of 10 values (Mote × 7(b)) Lowest Individual reading for any of the 10 values (Mote × 7(c)) 51 51 52 51 52 51 52 52		Properties	Method			
10 values (Note 7(b)) Lowest Individual reading for any of the 10 values (Note 7(c)) 2. Density (Min. Ave) D 792 g/cc Every 2,00,000 lb 0.940 3. Tensile Properties (min. ave) (Note 6) Break Strength Yield Strength Break Elongation Yield Elongation Yield Elongation For Puncture Resistance (min. ave) Carbon Black Content (Range) Carbon Black Content (Range) D 4218 / D 1603 Every 5th roll Every 10th roll 101.16 Every 5th roll 101.16 Every 5th roll 101.16 Every 10th roll 101.16 Every 10th roll Note 1 Every 5th roll 101.16 Every 10th roll 102.0 - 3.0 Every 10th roll Note 1 Every 2nd roll Note 2 Each two resign lots (One lot = 200,000 lb) Every 2nd roll Note 2 Each two resign lots (One lot = 200,000 lb) Every 200,000 lb Standard - OIT -OR- High Pressure - OIT D 5721 Standard - OIT (min. ave) - % For each formulation B 550 Per each formulation B 551 Every 200,000 lb Every 200,000 lb Per each formulation B 551 Every 200,000 lb Every 200,000 lb Per each formulation B 550 Every 200,000 lb Standard - OIT (min. ave) - % For Each two resign lots (One lot = 200,000 lb) Every 200,000 lb Standard - OIT Standard - OIT (min. ave) - % For Each two resign lots (One lot = 200,000 lb) Every 200,000 lb Every 200,000 lb Standard - OIT (min. ave) - % For Each two resign lots (One lot = 200,000 lb) Every 200,000 lb Every 200,000 lb Every 200,000 lb Every 200,000 lb	1.	min ave.) (Note 7(a))			- "	
3. Tensile Properties (min. ave) (Note 6)		10 values (Note 7(b)) Lowest Individual reading for any	D 5994	mils	Every roll	
► Break Strength D 6693 Type IV Dumbell, 2ipm Ib/in 131.33 150	2.	Density (Min. Ave)	D 792	g/cc	Every 2,00,000 lb	0.940
▶ Break Elongation G.L. 50mm % Every 5th roll 150 ▶ Yield Elongation G.L. 33mm % 12 4. Tear Resistance (min. ave) D 1004 lb Every 10th roll 42 5. Puncture Resistance (min. ave) D 4833 lb Every 10th roll 101.16 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 5885 (at 150°C) Minutes Every 200,000 lb > 500 11. Oven Aging at 85°C Standard - OIT (min. ave) - % retained after 90 days - OR - High Pressure - OIT (min. ave) - % D 5721 D 5885 Minutes Per each formulation 55 11. Oven Aging at 85°C Standard - OIT (min. ave) - % D 5721 D 5885 Minutes Per each formulation 80	3.	► Break Strength				91.36
## Vield Elongation G.L. 33mm % 12 4. Tear Resistance (min. ave) D 1004 Ib Every 10th roll 42 5. Puncture Resistance (min. ave) D 4833 Ib Every 10th roll 101.16 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) (Appendix) Hrs. Each two resign lots (One lot = 200,000 lb) 10. Oxidative Induction Time (min. ave) Standard - OIT D 5885 (at 150°C) D 5885 (at 150°C) 11. Oven Aging at 85°C Standard - OIT (min. ave) - % Per each formulation Fer each formulation Roll Per each formulation Roll Per each formulation Roll Roll		► Yield Strength		lb/in	Every 5th roll	131.33
4. Tear Resistance (min. ave) D 1004 D 1004 D Every 10th roll Every 10th roll 101.16 Carbon Black Content (Range) D 4218 / D 1603 Every 5th roll 2.0 - 3.0 Carbon Black Dispersion D 5596 Category Every 10th roll Note 1 Every 2nd roll Note 2 Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load) Coxidative Induction Time (min. ave) Standard - OIT -OR- High Pressure - OIT Coven Aging at 85°C Standard - OIT (min. ave) - % High Pressure - OIT (min. ave) - % D 5721 D 5885 High Pressure - OIT (min. ave) - % D 5785 D 5721 D 5885 Per each formulation 80		► Break Elongation	G.L. 50mm	%		150
5. Puncture Resistance (min. ave) D 4833 b Every 10th roll 101.16 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 (Min. ave) - W (at 200°C) D 5885 (at 200°C) Minutes Every 200,000 lb > 100 11. Oven Aging at 85°C Standard - OIT (min. ave) - W retained after 90 days - OR - High Pressure - OIT (min. ave) - W D 5721 D 5885 Minutes Per each formulation 55 11. D 5721 D 5885 D 5721 D 5885 Minutes 80		► Yield Elongation	G.L. 33mm	%		12
6. Carbon Black Content (Range) 7. Carbon Black Dispersion 8. Asperity Height (min ave) 9. Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load) 10. Oxidative Induction Time (min. ave) Standard - OITOR- High Pressure - OIT 11. Oven Aging at 85°C Standard - OIT (min. ave) - % Fer each formulation Find Black Dispersion D 5418 / D 1603	4.	Tear Resistance (min. ave)	D 1004	lb	Every 10th roll	42
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) D 5397 (Appendix) Hrs. Each two resign lots (One lot = 200,000 lb) 10. Oxidative Induction Time (min. ave) Standard - OIT (at 200°C) D 5885 (at 150°C) 11. Oven Aging at 85°C Standard - OIT (min. ave) - % retained after 90 daysOR- High Pressure - OIT (min. ave) - % Per each formulation P 5500 12. Carbon Black Dispersion D 5796 category Every 10th roll Note 1 13. D 5397 (Appendix) Hrs. Each two resign lots (One lot = 200,000 lb) 14. Oven Aging at 85°C Standard - OIT (min. ave) - % Per each formulation High Pressure - OIT (min. ave) - % Per each formulation B 5500	5.	Puncture Resistance (min. ave)	D 4833	lb	Every 10th roll	101.16
8. Asperity Height (min ave) 9. Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load) 10. Oxidative Induction Time (min. ave) Standard - OIT (at 200°C) High Pressure - OIT 11. Oven Aging at 85°C Standard - OIT (min. ave) - % High Pressure - OIT (min. ave) - % D 5721 D 5885 Per each formulation 80	6.	Carbon Black Content (Range)	D 4218 / D 1603	%	Every 5th roll	2.0 - 3.0
9. Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load) 10. Oxidative Induction Time (min. ave) Standard - OITOR- High Pressure - OIT (Min. ave) - % 11. Oven Aging at 85°C Standard - OIT (min. ave) - % 12. Oven Aging at 85°C Standard - OIT (min. ave) - % 13. Oven Aging at 85°C Standard - OIT (min. ave) - % 14. Oven Aging at 85°C Standard - OIT (min. ave) - % 15. D 5721 D 3895 Per each formulation Per each formulation 80	7.	Carbon Black Dispersion	D 5596	category	Every 10th roll	Note 1
(SP - Notched Constant Tensile Load) 10. Oxidative Induction Time (min. ave) Standard - OIT (at 200°C)OR- High Pressure - OIT (at 150°C) 11. Oven Aging at 85°C Standard - OIT (min. ave) - % 12. Oven Aging at 85°C Standard - OIT (min. ave) - % 13. Oven Aging at 85°C D 5721 Standard - OIT (min. ave) - % 14. Oven Aging at 85°C D 5721 D 5885 15. Per each formulation 16. Oxidative Induction Time (min. ave) - % 18. Iots (One lot = 200,000 lb) 19. Ninutes Every 200,000 lb 10. Oxidative Induction Time (min. ave) - 100 10. Oxidativ	8.	Asperity Height (min ave)	D 7466	mil	Every 2nd roll	Note 2
Standard - OIT (at 200°C)	9.	(SP - Notched Constant		Hrs.	lots (One lot =	500
D 5885 High Pressure - OIT Oven Aging at 85°C Standard - OIT (min. ave) - % retained after 90 daysOR- High Pressure - OIT (min. ave) - % D 5721 D 5885 Per each formulation 80	10.	Standard - OIT		Minutes	Every 200.000 lb	> 100
Standard - OIT (min. ave)- % D 3895 retained after 90 daysOR- High Pressure - OIT (min. ave) - % D 5721 D 5885						> 500
High Pressure - OIT (min. ave) - % D 5721 D 5885	11.	Standard - OIT (min. ave)- % retained after 90 days		%	6	55
		High Pressure - OIT (min. ave) - %			formulation	80

12.	UV Resistance	D 7238		Per each formulation	50
	HP - OIT (min. ave) - % retained after 1600 hrs	D 5885	%		

:: o	Typical Roll Dimension (Note 3)	
date 2019	Roll Width, ft	23.5
Rev4 date: Nov - 2019	Roll Length, ft	525
E 2	Roll Area, Sq. ft	12338

- Note 1: Dispersion only applies to near spherical agglomerates 9 to 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.
- Note 7: (a) Minimum average core thickness is 5% of the nominal thickness.
 - (b) lowest thickness for 8 out of 10 values is 10% of the nominal value.
 - (c) lowest thickness for any of the 10 values is 15% of the nominal value.

