

Linear Low Density Polyethylene Black/White MicroSpike® Liner



Product Data

Property	Test Method	Frequency	Minimum Average Values			
Thickness (minimum avg), mil (mm)	ASTM D5994	Per Roll	40 (1.0)	60 (1.5)	80 (2.0)	100 (2.5)
Thickness (minimum), mil (mm)			36 (0.90)	54 (1.35)	72 (1.8)	90 (2.25)
Asperity Height, mil (mm)	ASTM D7466	2nd Roll	20 (0.51)	20 (0.51)	18 (0.46)	18 (0.46)
Density, g/cc, maximum	ASTM D792, Method B	200,000 lb	0.939	0.939	0.939	0.939
Tensile Properties (both directions)	ASTM D6693, Type IV 2 in/minute	20,000 lb	112 (19.6) 400	168 (29.4) 400	224 (39.2) 400	280 (49) 400
Strength @ Break, lb/in width (N/mm)						
Elongation @ Break, % (GL=2.0in)						
Tear Resistance, lbs. (N)	ASTM D1004	45,000 lb	25 (111)	36 (160)	50 (222)	60 (267)
Puncture Resistance, lbs. (N)	ASTM D4833	45,000 lb	50 (222)	70 (310)	90 (400)	115 (512)
Carbon Black Content, % (range) ¹	ASTM D4218	20,000 lb	2 - 3	2 - 3	2 - 3	2 - 3
Carbon Black Dispersion (Category)	ASTM D5596	45,000 lb	Only near spherical agglomerates: 10 views in Cat. 1 or 2			
Oxidative Induction Time, minutes	ASTM D3895, 200°C, 1 atm O ₂	200,000 lb	≥140	≥140	≥140	≥140

¹Ash content may be ≥3 due to white layer

Agru America's geomembranes are certified to pass Low Temp. Brittleness via ASTM D746 (-80°C), Dimensional Stability via ASTM D1204 (±2% @ 100°C).
Oven Aging and UV Resistance are tested per GRI GM 17. These product specifications meet or exceed GRI's GM17.

Supply Information (Standard Roll Dimensions)

Thickness		Width		Length		Area (approx.)		
mil	mm	ft	m	ft	m	ft ²	m ²	
40	1.0	23	7	Double-Sided	740	226	17,020	1,581
				Single-Sided	770	235	17,710	1,645
60	1.5	23	7	Double-Sided	520	159	11,960	1,111
				Single-Sided	530	162	12,190	1,132
80	2.0	23	7	Double-Sided	395	120	9,085	844
				Single-Sided	400	122	9,200	855
100	2.5	23	7	Double-Sided	320	98	7,360	684
				Single-Sided	325	99	7,475	694

Note:

Average roll weight is 3,900 lbs (1,770 kg). All rolls are supplied with two slings. Rolls are wound on a 6" core. Special length available upon request. Roll length and width have a tolerance of ±1%. The weight values may change due to project specifications (i.e. absolute minimum thickness or special roll lengths) or shipping requirements (i.e. international containerized shipments).

All information, recommendations and suggestions appearing in this literature concerning the use of our products are based upon tests and data believed to be reliable; however, it is the users responsibility to determine the suitability for their own use of the products described herein. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by Agru America as to the effects of such use or the results to be obtained, nor does Agru America assume any liability in connection herewith. Any statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein is to be construed as permission or as a recommendation to infringe any patent.