Linear Low Density Polyethylene Smooth Liner®



Product Data

Property	Test Method	Frequency		Minimum Average Values			
Thickness (minimum avg), mil (mm) Thickness (minimum), mil (mm)	ASTM D5199	Per Roll	40 (1.0) 36 (0.9)	60 (1.5) 54 (1.35)	80 (2.0) 72 (1.8)	100 (2.5) 90 (2.25)	
Density, g/cc, maximum	ASTM D792, Method B	200,000 lb	0.939	0.939	0.939	0.939	
Tensile Properties (both directions) Strength @ Break, lb/in width (N/mm) Elongation @ Break, % (GL=2.0in)	ASTM D6693, Type IV 2 in/minute	20,000 lb	160 (28) 800	240 (42) 800	320 (56) 800	400 (70) 800	
Tear Resistance, lbs (N)	ASTM D1004	45,000 lb	25 (111)	37 (165)	48 (214)	62 (276)	
Puncture Resistance, lbs (N)	ASTM D4833	45,000 lb	60 (267)	90 (400)	120 (534)	150 (667)	
Carbon Black Content, % (range)	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	

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		Wic	Width		Length		Area (approx.)	
mil	mm	ft	m	ft	m	ft ²	m^2	
40	1.0	23	7	900	274	20,700	1,923	
60	1.5	23	7	600	183	13,800	1,282	
80	2.0	23	7	455	139	10,465	972	
100	2.5	23	7	365	111	8,395	780	

Note:

Average roll weight is 4,200 lbs (1,905 kg). All rolls are supplied with two slings. Rolls are wound on 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 length) or shipping requirments (i.e. international containerized shipments).

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