



20mil LLDPE SMOOTH GEOMEMBRANE

20mil LLDPE is a smooth linear low density polyethylene (LLDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that required increased flexibility and elongation properties where differential or localized subgrade settlements may occur such as in a landfill closure application.

TESTED PROPERTY	TEST METHOD	FREQUENCY	UNIT	VALUE
Thickness Lowest individual reading	ASTM D 5199	Every roll	Mil	20 18
Density	ASTM D 1505	200,000 lb	g/cm ³ (max)	0.939
Tensile Properties (each direction) Strength at Break Elongation at Break	ASTM D 6693, Type IV Dumdbell, 2 ipm G.L. 2.0 in	20,000 lb	lb/in-width %	76 800
Tear Resistance	ASTM D 1004	45,000 lb	lb	11
Puncture Resistance	ASTM D 4833	45,000 lb	lb	28
Carbon Black Content	ASTM D 1603*/4218	20,000 lb	% (range)	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb		Note ⁽¹⁾
Oxidative Induction Time, mins	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lb	Mins	>100
TYPICAL ROLL SIZES				
Roll Length ⁽²⁾			ft	1,670
Roll Width ⁽²⁾			ft	22.5
Roll Area ⁽²⁾			ft	37,575

NOTES:

- (1) Dispersion only applies to near spherical agglomerates. 9 or 10 views shall be Category 1 or 2. No more than 1 view from Category 3.
- (2) Roll lengths and widths have a tolerance of ±1 %.
- *modified

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