

GEOSYNTHETIC TESTING

General Properties

Standard	Description	Notes
ASTM D5199 D5994	Thickness	
ASTM D7446	Asperity Height	
ASTM D5261	Mass Per Unit Area - Geotextile	
ASTM D3776	Mass Per Unit Area	
ASTM D6566	Mass Per Unit Area - Reinforced Mats	
ASTM D4751	Apparent Opening Size	
ASTM D1204	Linear Dimensional Change	
ASTM D1203	Volatile Loss	
ASTM D792	Specific Gravity	
ASTM D4218	Carbon Black Content	
ASTM D3015 D5596	Carbon Black Dispersion	
ASTM D1790	Brittleness Temperature	
ASTM D2136	Low Temperature Bend	
ASTM D3884	Abrasion Resistance	
ASTM D7138	Melting Point	5 Samples
COE Method	Geogrid Percent Open Area	

Tensile Properties

Standard	Description	Notes
ASTM D4632	Tensile Strength	
ASTM D6818	Tensile Strength	
ASTM D7004	Tensile Strength	
ASTM D7179	Tensile Strength	
ASTM D7737	Geogrid Junction Strength	
ASTM D638	Narrow Strip Tensile Strength	
ASTM D882	Narrow Strip Tensile Strength	
ASTM D1117	Narrow Strip Tensile Strength	
ASTM D1682	Narrow Strip Tensile Strength	
ASTM D5323	Narrow Strip Tensile Strength	
ASTM D6693	Narrow Strip Tensile Strength	
ASTM D7003	Narrow Strip Tensile Strength	
ASTM D4595 D4885	Wide Width Tensile Strength	
ASTM D4884	Wide Width Seam Tensile Strength	
ASTM D5262	Tension Creep	
ASTM D2594	Stretch and Rebound	
ASTM D7737	Geogrid Junction Strength	
ASTM D6637	Geogrid Tensile Strength	
ASTM D1621	Cellular Plastic Strength	

Puncture Resistance

Standard	Description	Notes
ASTM D4833	Rod Puncture	
ASTM D6241	CBR Puncture	
ASTM D3787	Ball Burst	
ASTM D3786	Mullen Burst Strength	10 Samples

Tear Resistance

Standard	Description	Notes
ASTM D4533	Trapezoidal Tear	
ASTM D5884	Tongue Tear	
ASTM D1004	Notched Tear	

Bond / Seam Strength

Standard	Description	Notes
ASTM D6636	Ply Adhesion	
ASTM D7005	Ply Adhesion	
ASTM F904	Ply Adhesion	
ASTM D7747	Seam Shear	
ASTM D6392	Seam Shear	
ASTM D6214	Seam Shear	
ASTM D7056	Seam Shear	
ASTM D6392 D7747	Field Seam Shear	
ASTM D7747	Seam Peel	Per Track
ASTM D6214	Seam Peel	Per Track
ASTM D6392	Seam Peel	Per Track
ASTM D6392 D7747	Field Seam Peel	

Hydraulic Properties

Standard	Description	Notes
ASTM D4716	Transmissivity	4" Width, 3 Points Varying Normal Load or Gradient
ASTM D4491	Permittivity	4 heads done for laminar flow.
ASTM D5493	Permittivity Under Load	

Large Scale Properties

Standard	Description	Notes
ASTM D5617	Multiaxial Stress / Strain	
ASTM D5321 D6243	Interface Direct Shear (Per Point)	
ASTM D5514	Hydrostatic Point Stress	12" Cones
ATT GP-77	Geostatic Point Stress	12" Diameter, 48 hour Test

Geosynthetic Clay Liner (GCL) Properties

Standard	Description	Notes
ASTM D6243	GCL Internal Friction / Strength (Per Point)	Includes GCL Hydration for 3 Points Up to 72 Hours
ASTM D5887	GCL Flux / Permeability	
ASTM D946	Plate Water Absorption	
ASTM D5993	GCL Mass Per Unit Area	Wet / Dry Mass
ASTM D6496	GCL Peel Strength	
ASTM D6768	GCL Tensile Strength	
ASTM D5890	GCL Swell Index	
ASTM D5891	GCL Fluid Loss	

Samples are held for 60 days after testing is completed. After 60 days samples will be discarded if prior arrangements have not been made.

A 1.5 multiplier will be applied to all contaminated or hazardous materials (chemical, radiological, or biological).

A 1.5 multiplier will be applied to all samples received under our foreign import license, and will be oven dried before leaving the facility.

A 1.1 multiplier will be applied to all core samples with a diameter larger than 2.5 inches.

Core drilling block samples will be billed at a rate of \$90 per hour.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

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