



# ADVANCED TERRA TESTING

## 2023 PROCEDURES

ADVANCED TERRA TESTING

303-232-8308 833 PARFET ST. UNIT A LAKEWOOD CO 80215 www.terratesting.com

## 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 D1790	Brittleness Temperature	
ASTM D2136	Low Temperature Bend	
ASTM D3884	Abrasion Resistance	
COE Method	Geogrid Percent Open Area	

### Tensile Properties

Standard	Description	Notes
ASTM D4632	Tensile Strength	
ASTM D7004	Tensile Strength	
ASTM D7179	Tensile Strength	
ASTM D7737	Geogrid Junction 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 D2594	Stretch and Rebound	
ASTM D6637	Geogrid Tensile Strength	
ASTM D1621	Cellular Plastic Strength	
ASTM D6364	Geosynthetic Compression	

## 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 D751 / F904	Ply Peel 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 lamimer flow.
ASTM D6918	Crimp Test	

## Large Scale Properties

Standard	Description	Notes
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

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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 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	