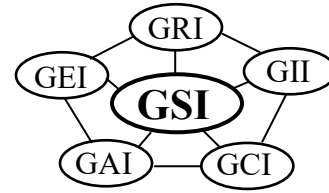


Geosynthetic Institute

475 Kedron Avenue
Folsom, PA 19033-1208 USA
TEL (610) 522-8440
FAX (610) 522-8441



July 21, 2021 Revision

Mr. J.P. Kline, P.E.
Laboratory Director
Geotechnics Inc.
544 Braddock Ave.
East Pittsburgh, PA 15112

Re: GAI-LAP Accreditation

Dear Mr. Kline,

The Geosynthetic Institute (GSI) is pleased to acknowledge Geotechnics Inc. on its repertoire of Geosynthetic Accreditation Institute's-Laboratory Accreditation Program (GAI-LAP) accredited tests. This letter should serve as notification that Geotechnics Inc. located in East Pittsburgh, PA is currently accredited for the following fifty-five (55) test methods until June 30, 2022.

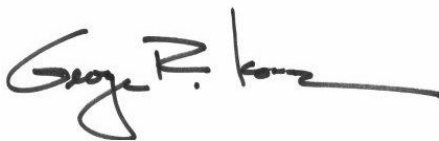
1. ASTM D374 Test Methods for Thickness of Solid Electrical Insulation
2. ASTM D413 Test Methods for Rubber Property – Adhesion to Flexible Substrate
3. ASTM D751 Test Methods for Coated Fabrics (thickness), (grab) and/or (bonded seam strength)
4. ASTM D792 Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement
5. ASTM D882 Test Methods for Tensile Properties of Thin Plastic Sheeting (strip tensile)
6. ASTM D1004 Test Method for Initial Tear Resistance of Plastic Film and Sheeting
7. ASTM D1204 Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature
8. ASTM D1238 Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer
9. ASTM D1505 Test Method for Density of Plastics by the Density-Gradient Technique
10. ASTM D1593 Specification for Nonrigid Vinyl Chloride Plastic Sheeting (thickness)
11. ASTM D1603 Test Method for Carbon Black in Olefin Plastics
12. ASTM D3786 Test Method for Hydraulic Burst Strength of Knitted Goods and Nonwoven Fabrics (Diaphragm Bursting Strength Tester Method)

13. ASTM D4218 Test Method for Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique
14. ASTM D4491 Test Methods for Water Permeability of Geotextiles by Permittivity
15. ASTM D4533 Test Method for Index Trapezoidal Tearing Strength of Geotextiles
16. ASTM D4595 Test Method for tensile properties by Wide Width Strip Method
17. ASTM D4632 Test Method for Grab Breaking Load and Elongation of Geotextiles
18. ASTM D4716 Test Method for Determining the (In-Plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head
19. ASTM D4751 Test Method for Determining Apparent Opening Size of a Geotextile
20. ASTM D4833 Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
21. ASTM D4884 Test Method for Seam Strength of Sewn Geotextiles
22. ASTM D4885 Test Method for Determining Performance Tensile Strength of Geomembranes Using Wide Strip Testing
23. ASTM D5035 Test Method for Breaking Strength and Elongation of Textiles – strip method
24. ASTM D5199 Test Method for Measuring Nominal Thickness of Geotextiles and Geomembranes
25. ASTM D5261 Test Method for Measuring Mass per Unit Area of Geotextiles
26. ASTM D5321 Test Methods for Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method
27. ASTM D5323 Determination of 2% Secant Modulus for Polyethylene Geomembranes
28. ASTM D5596 Test Methods for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics
29. ASTM D5884 Test Method for the Tearing Strength of Internally Reinforced Geomembranes
30. ASTM D5887 Test Method for Index Flux through Saturated GCL using a Flexible Wall Permeameter
31. ASTM D5890 Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners
32. ASTM D5891 Standard Test Method for Fluid Loss of Clay Component of Geosynthetic Clay Liners
33. ASTM D5993 Test Method for Measuring the Mass Per Unit Area of GCL
34. ASTM D5994 Test Method for Measuring the Core Thickness of Textured Geomembranes
35. ASTM D6214 Test Method for Determining the Integrity of Field Seams Used in Joining Geomembranes by Chemical Fusion Methods
36. ASTM D6241 Test Method for the Static Puncture Strength of Geotextiles and Geotextile Related Products Using a 50-mm Probe
37. ASTM D6243 Test Method for Determine the Internal and Interface Shear Resistance of Geosynthetic Clay Liners by the Direct Shear Method
38. ASTM D6364 Test Method for Determining the Short-Term Compression Behavior of Geosynthetics
39. ASTM D6392 Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Method

40. ASTM D6496 Test Method for Determining the Average Bonding Peel Strength Between Top and Bottom Layers of Needle-Punched Geosynthetic Clay Liners
41. ASTM D6636 Test Method for Determination of Ply Adhesion Strength of Reinforced Geomembranes
42. ASTM D6693 Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes
43. ASTM D6766 Test Method for Evaluation of Hydraulic Properties of Geosynthetic Clay Liners Permeated with Potentially Incompatible Liquids
44. ASTM D6768 Test Method for Tensile Strength of Geosynthetic Clay Liners
45. ASTM D7003 Test Method for Strip Tensile Properties of Reinforced Geomembranes
46. ASTM D7004 Test Method for Grab Tensile Properties of Reinforced Geomembranes
47. ASTM D7005 Test Method for Determining the Bond Strength (Ply Adhesion) of Geocomposites
48. ASTM D7179 Test Method for Determining Geonet Breaking Force
49. ASTM D7466 Asperity Measurement of Textured Geomembranes Using a Depth Gage
50. ASTM F904 Test Method for Comparison of Bond Strength or Ply Adhesion of Similar Laminates Made from Flexible Materials
51. ASTM D2256 Test Method for Tensile Properties of Yarn Single Strand
52. ASTM D5567 Test Method for Hydraulic Conductivity Ration Testing of Soil/Geotextile Systems
53. ASTM D7408 Standard Practice for Non-resin PVC Geomembrane Seams
54. ASTM D7747 Test Method for determining Integrity of Seams Using Thermo-Fusion for Reinforced GM by Strip Tensile Method
55. ASTM D7749 Test Method for Determining Integrity of Seams Using Thermo-Fusion for Reinforced GM by the Grab Method

A certificate to this affect has been enclosed, signed and sealed. Any questions regarding your accreditation should be directed to George Koerner at (610) 522-8440. Once again congratulation and thank you for participating in the GAI-LAP.

Best regards,



George R. Koerner, Ph.D., P.E. & CQA
Director