SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TRI ENVIRONMENTAL, INC.
A.K.A. PRECISION GEOSYNTHETIC LABORATORIES INTERATIONAL
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MECHANICAL

Valid To: March 31, 2023 Certificate Number: 5132.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on geosynthetic products:

Test	Test Method(s)[1]
Test Methods for Rubber Property – Adhesion to Flexible Substrate	ASTM D413
Test Method for Water Absorption of Plastics	ASTM D570
Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement	ASTM D792 (Method A)
Test Methods for Tensile Properties of Thin Plastic Sheeting	ASTM D882
Test Method for Initial Tear Resistance of Plastic Film and Sheeting	ASTM D1004
Test Method for Carbon Black in Olefin Plastics	ASTM D1603
Test Method for Measuring Thickness of Textile Materials	ASTM D1777
Test Method for Coated Fabrics – Low Temperature Bend Test	ASTM D2136
Test Method for Mass Per Unit Area (Weight) of Woven Fabric	ASTM D3776
Test Method for Hydraulic Burst Strength of Knitted Goods and Nonwoven Fabrics (Diaphragm Bursting Strength Tester Method)	ASTM D3786
Test Method for Carbon Black Content in Polyethylene Compounds by the Muffle Furnace Technique	ASTM D4218
Test Method for Water Permeability of Geotextiles by Permittivity	ASTM D4491 (Method A)
Test Method for Index Trapezoidal Tearing Strength of Geotextiles	ASTM D4533
Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method	ASTM D4595
Test Method for Grab Breaking Load and Elongation of Geotextiles	ASTM D4632
Test Method for Determining the Flow Rate Per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head	ASTM D4716
Test Method for Determining the Apparent Opening Size of a Geotextile	ASTM D4751 (Method A)
Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products	ASTM D4833
Test Method for Seam Strength of Sewn Geotextiles	ASTM D4884
Test Method for Determining Performance Tensile Strength of Geomembranes Using Wide Strip Testing	ASTM D4885
Test Method for Measuring Nominal Thickness of Geotextiles and Geomembranes	ASTM D5199

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Test	Test Method(s)[1]
Test Method for Measuring Mass Per Unit Area of Geotextiles	ASTM D5261
Test Methods for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics	ASTM D5596
Test Method for Tearing Strength of Internally Reinforced Geomembranes	ASTM D5884
Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners	ASTM D5890
Test Method for Measuring the Mass Per Unit Area of GCL	ASTM D5993
Test Method for Measuring the Core Thickness of Textured Geomembranes	ASTM D5994
Test Method for the Static Puncture Strength of Geotextiles and Geotextile Related Products Using a 50-mm Probe	ASTM D6241
Standard Test Method for Determining the Integrity of Non-Reinforced Geomembrane Seams Produced Using Thermo-Fusion Methods	ASTM D6392
Test Method for Determination of Ply Adhesion Strength of Reinforced Geomembranes	ASTM D6636
Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method	ASTM D6637
Test Method for Determining Tensile Properties of Non-reinforced Polyethylene and Non-reinforced Flexible Polypropylene Geomembranes	ASTM D6693
Test Method for Tensile Strength of Geosynthetic Clay Liners	ASTM D6768
Test Method for Strip Tensile Properties of Reinforced Geomembranes	ASTM D7003
Test Method for Grab Tensile Properties of Reinforced Geomembranes	ASTM D7004
Test Method for Determining the Bond Strength (Ply Adhesion) of Geocomposites	ASTM D7005
Test Method for Measuring the Asperity Height of Textured Geomembrane	ASTM D7466
Test Method for Comparison of Bond Strength or Ply Adhesion of Similar Laminates Made from Flexible Materials	ASTM F904
Determination of Mass Per Unit Area	ISO 9864
Geotextiles and Geotextile-Related Products – Determination of Water Permeability Characteristics Normal to the Plane, Without Load	ISO 11058 (Constant Head Method)
Determination of Static Puncture Test (CBR Test)	ISO 12236
Geotextiles and Geotextile-Related Products – Determination of Water Flow Capacity in Their Plane	ISO 12958

[1] When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

Accredited Laboratory

A2LA has accredited

TRI ENVIRONMENTAL, INC. A.K.A. PRECISION GEOSYNTHETIC LABORATORIES INTERNATIONAL

Anaheim, CA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 8th day of March 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5132.02
Valid to March 31, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.