



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TRI ENVIRONMENTAL, INC.¹
9063 Bee Cave Road
Austin, TX 78733
Carmelo Zantua Phone: (512) 615 4429

MECHANICAL

Valid To: March 31, 2025

Certificate Number: 5132.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, as well as the satellite locations listed below, to perform the following tests:

Test:

Test Method(s)²:

Standard Test Method for Tensile Properties of Plastics	ASTM D638 (<i>except A.3</i>)
Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	ASTM D790
Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer	ASTM D1238
Standard Test Method for Density of Plastics by the Density-Gradient Technique	ASTM D1505
Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading	ASTM D2412
Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)	ASTM D2444
Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics	ASTM D2990
Standard Test Method for Oxidative-Induction Time of Polyolefins by Differential Scanning Calorimetry	ASTM D3895
Standard Test Method for Determination of Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique	ASTM D4218
Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method	ASTM D4595
Standard Test Method for Determining Inherent Viscosity of (Poly/Ethylene Terephthalate) (PET) By Glass Capillary Viscometer	ASTM D4603

<u>Test:</u>	<u>Test Method(s):</u>
Standard Test Method for Evaluating the Unconfined Tension Creep and Creep Rupture Behavior of Geosynthetics	ASTM D5262
Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic Interfaces by Direct Shear	ASTM D5321
Standard Practice for Exposure and Retrieval of Samples to Evaluate Installation Damage of Geosynthetics	ASTM D5818
Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test	ASTM D5397
Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by High-Pressure Differential Scanning Calorimetry	ASTM D5885
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
Standard Test Method for Measuring Geosynthetic Pullout Resistance in Soil	ASTM D6706
Standard Test Method for Carboxyl End Group Content of Polyethylene Terephthalate (PET) Yarns	ASTM D7409
Standard Test Method for Protective Clothing Material Resistance to Puncture	ASTM F1342
Standard Test Method for Accelerated Tensile Creep and Creep-Rupture of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method	ASTM D6992
Standard Test Method for Notched, Constant Ligament-Stress (NCLS) Test to Determine Slow-Crack-Growth Resistance of HDPE Resins or HDPE Corrugated Pipe	ASTM F2136
Standard Test Method for Protective Clothing Material Resistance to Hypodermic Needle Puncture	ASTM F2878
Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing with Tomodynamometer (TDM-100) Test Equipment	ASTM F2992
Carboxyl End Group Content of Polyethylene Terephthalate (PET) Yarns	GRI-GG7



Test:**Test Method(s):**

Determination of the Number Average Molecular Weight of Poly/Ethylene Terephthalate (PET) Yarns Based on a Relative Viscosity Value	GRI-GG8
Geosynthetics – Wide-Width Tensile Test	ISO 10319
Geotextiles and geotextile-related products -- Determination of Tensile Creep and Creep Rupture Behavior	ISO 13431
Geotextiles and geotextile - related products – Screening test method for determining the resistance to acid and alkali liquids	ISO 12960
Geosynthetics - Installing and retrieving samples in the field for durability assessment	ISO 13437
Geosynthetics – Screening test method for determining the resistance of geotextiles and geotextile-related products to oxidation	ISO 13438
Textiles -- Tensile properties of fabrics -- Part 1: Determination of maximum force and elongation at maximum force using the strip method	ISO 13934-1
Textiles -- Tensile properties of fabrics -- Part 2: Determination of maximum force using the grab method	ISO 13934-2
Protective Clothing – Mechanical Properties -- Determination of Resistance to Puncture	ISO 13996
Protective Clothing – Mechanical Properties -- Determination of Resistance to Cutting by Sharp Objects	ISO 13997
Protective Gloves Against Mechanical Risks (Abrasion, Puncture, Cut Resistance & Tear Resistance)	CSN EN 388
Geotextiles and geotextile-related products – Determination of the resistance to weathering	EN 12224
Geosynthetics – Determining the microbiological resistance by a soil burial test	EN 12225
Strengthened/reinforced soils and other fills - Site Damage Test	BS 8006 (Annex D)
Geotextiles and geotextile-related products. Screening test method for determining the resistance to hydrolysis in water	EN 12447
Geotextiles and geotextile-related products. Determination of pullout resistance in soil	EN 13738



<u>Test:</u>	<u>Test Method(s):</u>
Geotextiles and geotextiles-related products – Screening test method for determining the resistance to acid and alkaline liquids	EN 14030
Geosynthetics - Tensile Test for Joints/Seams by Wide-Width Strip Method	ISO 10321
Geosynthetics - related products – Index test procedure for the evaluation of mechanical damage under repeated loading. Damage caused by granular material (laboratory test method)	ISO 10722
Geosynthetics – Determination of friction characteristics Part 1: Direct shear test	ISO 12957-1
Standard Practices for Electrical Methods for Locating Leaks in Geomembranes Covered with Water or Earthen Materials ²	ASTM D7007
Standard Practices for Electrical Methods for Mapping Leaks in Installed Geomembranes	ASTM D8265
Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Water Puddle Method	ASTM D7002
Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Arc Testing Method	ASTM D7953
Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Water Lance Method	ASTM D7703
Standard Practice for Electrical Leak Location Using Geomembranes with an Insulating Layer in Intimate Contact with a Conductive Layer via Electrical Capacitance Technique	ASTM D7240
Determination of Tensile Strength and Elongation at Break Using the Strip Method	ISO 9073-3
Guidelines for the determination of the long-term strength of geosynthetics for soil reinforcement	ISO/TS 20432
Geosynthetics - General tests for evaluation following durability testing	EN 12226



112 Martin Road
Greenville, SC 29607
Phone: (864) 569-6888

Test:

Test Method(s):

Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure

ASTM D1598

Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing and Fittings

ASTM D1599

28 Oaklane Office Park
Grippen Road, Bartlett, Boksburg 1459
South Africa

Test:

Test Method(s)²:

Standard Practices for Electrical Methods for Locating Leaks in Geomembranes Covered with Water or Earthen Materials

ASTM D7007

Standard Practices for Electrical Methods for Mapping Leaks in Installed Geomembranes

ASTM D8265

Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Arc Testing Method

ASTM D7953

28 Taree Street,
Burleigh Heads,
QLD 4220, Australia

Test:

Test Method(s)²:

Standard Practices for Electrical Methods for Locating Leaks in Geomembranes Covered with Water or Earthen Materials

ASTM D7007

Standard Practices for Electrical Methods for Mapping Leaks in Installed Geomembranes

ASTM D8265

Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Water Puddle Method

ASTM D7002

Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Arc Testing Method

ASTM D7953

¹This accreditation covers the specified testing performed at the laboratory locations listed in this scope of accreditation.

²This laboratory performs Electrical Leak Location Survey (ELLS) Procedures in the field.





Accredited Laboratory

A2LA has accredited

TRI ENVIRONMENTAL, INC.

Austin, TX

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 24th day of March 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5132.01
Valid to March 31, 2025

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