



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GREENE, TWEED & CO.
(CENTRAL ENGINEERING, MATERIALS LABORATORY & PRODUCT TESTING LABORATORY)
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MECHANICAL

Valid To: August 31, 2023

Certificate Number: 3187.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on manufactured components, rubber, PTFE, and composites:

<u>Test:</u>	<u>Test Method(s):</u>
Brittleness Temperature of Plastics and Elastomers by Impact	ASTM D746
Compressive Properties of Rigid Plastics	ASTM D695
Corrosion and Adhesion	SAE AMS-P-5516 Section 4.5.4, SAE AMS-P-83461 Section 4.6.3, SAE AMS-P-25732 (Withdrawn 2003) ¹ Section 4.6.3; NAS 1613 Section 4.3.3.9; MIL-PRF-25732
Deformation Under Load	ASTM D621-1988 (Withdrawn) ¹
Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
Dynamic Cycling, Corrosion and Adhesion	MIL-PRF-25732; SAE AMS-P-25732 (Withdrawn 2003) ¹ Section 4.7, SAE AMS-P-83461 Section 4.7
Enthalpies of Fusion and Crystallization by Differential Scanning Calorimetry	ASTM E793
Evaluating Rubber Property – Retraction at Lower Temperatures (TR Test)	ASTM D1329
Flex Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	ASTM D790

Test:

Infrared Spectrophotometry

Liquid Penetrant Examination

Polytetrafluoroethylene (PTFE) Molding and Ram Extrusion Materials

Rubber – Compositional Analysis by Thermogravimetry (TGA)

Rubber – Deterioration in an Air Oven

Rubber – O-Rings

Rubber – Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets

Rubber Properties – Measurement of Cure and After – Cure Dynamic Properties using RPA

Rubber – Measurement of Unvulcanized Rheological Properties using Rotorless Shear Rheometers

Rubber Products – Chemical Analysis (Specific Gravity)

Rubber Property – Adhesion to Rigid Substrates

Rubber Property – Compression Set

Rubber Property – Durometer Hardness (Types A, D and M)

Rubber Property – Effect of Liquids

Rubber Property – International Hardness

Rubber Property – Vulcanization using Rotorless Cure Meters

Rubber – Viscosity, Stress Relaxation, and Pre-Vulcanization Characteristics (Mooney Viscometer)

Conditioning Plastics for Testing

Shear Strength of Plastics by Punch Tool

Standard Test Method for Assignment of the DSC Procedure for Determining Tg of a Polymer or an Elastomeric Compound

Test Method(s):

ASTM E1252

ASTM E165
Except Sections A.2 to A.4

ASTM D4894 Section 10.7

ASTM D6370

ASTM D573

ASTM D1414

ASTM D3182
Except Sections 7.2 and 7.3

ASTM D6601

ASTM D6204

ASTM D297 Section 16.3

ASTM D429 Method A

ASTM D395 Method B

ASTM D2240 Method A

ASTM D471

ASTM D1415

ASTM D5289

ASTM D1646

ASTM D618

ASTM D732

ASTM D7426



Test:

Test Method(s):

Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis	ASTM E831
Static and Kinetic Coefficients of Friction of Plastic Film and Sheetting	ASTM D1894
Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers, Die B and Die C	ASTM D624
Tensile Properties of Plastics	ASTM D638 <i>Except Section A.3</i>
Tensile Properties of Polymer Matrix Composite Materials	ASTM D3039
Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry	ASTM D3418
Vulcanized Rubber and Thermoplastic Elastomers Tension	ASTM D412 Procedure A
Water Absorption of Plastics	ASTM D570
Compressive Properties of Polymer Matrix Composites	ASTM D6641
Shear Properties of Composites	ASTM D7078
Filled Compounds of Polytetrafluoroethylene (PTFE) Molding and Extrusion Materials (Tensile Only)	ASTM D4745
Tensile Properties of Plastics	ASTM D1708

¹ *This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.*





Accredited Laboratory

A2LA has accredited

GREENE, TWEED & CO.

Kulpsville, PA

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 2nd day of August 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3187.01
Valid to August 31, 2023

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