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, 2021 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:

Test:	**Test Method(s):**
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Corrosion and Adhesion	SAE AMS-P-5516 Section 4.5.4, SAE AMS-P-83461 Section 4.6.3, SAE AMS-P-25732 (*Withdrawn 2003*)[1] Section 4.6.3, SAE AMS-P-83461 Section 4.6.3; NAS 1613 Section 4.3.3.9; MIL-PRF-25732
Deformation Under Load	ASTM D621-1988 (*Withdrawn*) [1]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Dynamic Cycling, Corrosion and Adhesion	MIL-PRF-25732; SAE AMS-P-25732 (*Withdrawn 2003*)[1] Section 4.7, SAE AMS-P-83461 Section 4.7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

Test:	Test Method(s):
Flex Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	ASTM D790
Infrared Spectrophotometry	ASTM E1252
Liquid Penetrant Examination	ASTM E165 *Except Sections A.2 to A.4*
Polytetrafluoroethylene (PTFE) Molding and Ram Extrusion Materials	ASTM D4894 Section 10.7
Rubber – Compositional Analysis by Thermogravimetry (TGA)	ASTM D6370
Rubber – Deterioration in an Air Oven	ASTM D573
Rubber – O-Rings	ASTM D1414
Rubber – Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets	ASTM D3182 *Except Sections 7.2 and 7.3*
Rubber Properties – Measurement of Cure and After – Cure Dynamic Properties using RPA	ASTM D6601
Rubber – Measurement of Unvulcanized Rheological Properties using Rotorless Shear Rheometers	ASTM D6204
Rubber Products – Chemical Analysis (Specific Gravity)	ASTM D297 Section 16.3
Rubber Property – Adhesion to Rigid Substrates	ASTM D429 Method A
Rubber Property – Compression Set	ASTM D395 Method B
Rubber Property – Durometer Hardness (Types A, D and M)	ASTM D2240 Method A
Rubber Property – Effect of Liquids	ASTM D471
Rubber Property – International Hardness	ASTM D1415
Rubber Property – Vulcanization using Rotorless Cure Meters	ASTM D5289
Rubber – Viscosity, Stress Relaxation, and Pre-Vulcanization Characteristics (Mooney Viscometer)	ASTM D1646
Conditioning Plastics for Testing	ASTM D618
Shear Strength of Plastics by Punch Tool	ASTM D732

Test:	Test Method(s):
Standard Test Method for Assignment of the DSC Procedure for Determining Tg of a Polymer or an Elastomeric Compound	ASTM D7426
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 Sheeting	ASTM D1894
Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers, Die B and Die C	ASTM D624
Tensile Properties of Plastics	ASTM D638 *Except Section A.3*
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 11th day of October 2019.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3187.01
Valid to August 31, 2021

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