SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ADVANCED PLASTIC AND MATERIAL TESTING, INC.
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CHEMICAL

Valid To: November 30, 2024 Certificate Number: 0326.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on adhesives, automotive products, cable, circuit boards, coatings, composites, contaminants, fasteners, films, fluid, foam, fuel, gaskets, jewelry, labels, ladders, lubricants, metal, metal alloys, mirrors, oil, packaging, paint, petroleum products, pipe, plastic, platings, polymers, powder metal, pultrusions, rubber, sealants, siding, solutions, tape, and wire:

Test Method [1]:	**Test Description:**
ASTM B311	Density of Powder Metal
ASTM D297	Density of Rubber (Hydrostatic Method Only)
ASTM D445	Kinematic Viscosity
ASTM D570	Water Absorption
ASTM D792	Density and Specific Gravity of Plastics
ASTM D974	Acid Number and Base Number by Color Indicator Titration
ASTM D1238	Melt Flow Rate: Melt Index
ASTM D1475	Density of Liquid: Pycnometer Testing
ASTM D1505	Density by Density-Gradient Tube
ASTM D1824	Apparent Viscosity: Rotational Viscosity, Brookfield Viscosity
ASTM D2584	Ignition Loss: Ash Content, Filler Content
ASTM D3159	Melt Flow Rate of ETFE
ASTM D3171	Filler Content of Composite Materials (*except Microwave Digestion*): Carbon Fiber Content, Aramid Filler Content
ASTM D3418	Differential Scanning Calorimetry (DSC): Melting Point (Tm), Glass Transition (Tg), Heat of Fusion, Heat of Crystallization, Transition Temperatures, Heat of Transition
ASTM D4591	Differential Scanning Calorimetry of Fluoropolymers (DSC): Melting Point
ASTM D5630, Method B	Ash Content: Filler Content (withdrawn 2022)[2]
ASTM E415	Spectrometric Analysis of Low Alloy Steels (Carbon Steel)
ASTM E831	Thermomechanical Analysis (TMA): Thermal Expansion, CTE, CLTE Probe Types: Expansion, Penetration, Tension (Film/Fiber), 3-Point Bend
ASTM E1086	Spectrometric Analysis of Stainless Steel
ASTM E1131	Thermogravimetric Analysis (TGA): Ash Content, Filler Content, Carbon Content, Volatility Studies
ASTM E1251	Spectrometric Analysis of Aluminum and Aluminum Alloys
ASTM E1252	Infrared Spectra for Qualitative Analysis: FT Infrared Microscopy, IR Scan, FTIR Analysis, Organic Material Identification

Test Method [1]:	**Test Description:**
ASTM E1508	Energy Dispersive Spectroscopy (EDS): EDX, Elemental Scan, Micro Identification, Contaminant Identification
ASTM E1545	Thermomechanical Analysis (TMA): Glass Transition (Tg)
ASTM E1621	X-Ray Fluorescence (XRF): Chemical Analysis of Elements Na to U, Elemental Identification, Heavy Metals, Trace Elements, Restriction of Hazardous Substances (ROHS), Chlorine in Oil
ASTM E1999	Spectrometric Analysis of Cast Iron
GDS Manual	Glow Discharge Spectrometry (GDS): Chemistry, Chemical Analysis, Metal Composition, Aluminum Alloys, Brass, Cast Irons, Copper Alloys, Iron Alloys, Nickel Alloys, Stainless Steel, Steel, Superalloys, Tool Steels, Welding Metals
ISO 1133	Melt Flow Rate: Melt Mass Flow Rate (MFR), Melt Volume Flow Rate (MVR)
ISO 1183-1	Density and Specific Gravity by Immersion
ISO 3451-1, -4, Method A	Ash Content by Direct Calcination: Filler Content
ISO 11357	Differential Scanning Calorimeter (DSC)
ISO 11359	Thermomechanical Analysis (TMA)
MIL-PRF-81733	Application Time of Sealant: SEMCO Sealant Gun

Also using client/custom test methods directly related to the test methods and parameters listed above.

[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*.

[2]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

ADVANCED PLASTIC AND MATERIAL TESTING, INC.

Ithaca, NY

for technical competence in the field of

Chemical 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 15th day of November 2022.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0326.02
Valid to November 30, 2024

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