



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ADVANCED PLASTIC AND MATERIAL TESTING, INC.  
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CHEMICAL

Valid To: November 30, 2012

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, air bags, automotive products, cable, circuit boards, coatings, composites, contaminants, fasteners, films, fluid, foam, fuel, gaskets, labels, ladders, lubricants, metal, metal alloys, mirrors, oil, packaging, paint, petroleum products, pipe, plastic, platings, polymers, powder metal, rubber, sealants, solutions, tape and wire:

| <u>Test Method:</u> | <u>Test Description:</u>                                                                                                                                                                                 |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASTM D92            | Flash and Fire Points by Cleveland Open Cup Tester                                                                                                                                                       |
| ASTM D93            | Flash Point by Pensky-Martens Closed Cup Tester                                                                                                                                                          |
| ASTM D297           | Density of Rubber (Density Only)                                                                                                                                                                         |
| ASTM D445           | Kinematic Viscosity                                                                                                                                                                                      |
| ASTM D570           | Water Absorption                                                                                                                                                                                         |
| ASTM D789           | Solution Viscosity of Polyamide (Brookfield Method Only):<br>Relative Viscosity, Degradation Level                                                                                                       |
| 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 D3171          | Filler Content of Composite Materials (Except Microwave Digestion):<br>Carbon Fiber Content, Aramid Filler Content                                                                                       |
| ASTM D3418          | Differential Scanning Calorimetry (DSC):<br>Melting Point (T <sub>m</sub> ), Glass Transition (T <sub>g</sub> ), Heat of Fusion,<br>Heat of Crystallization, Transition Temperatures, Heat of Transition |
| ASTM D3850          | Thermogravimetric Analysis (TGA Analysis)                                                                                                                                                                |
| ASTM D4591          | Differential Scanning Calorimetry of Fluoropolymers (DSC): Melting Point                                                                                                                                 |
| ASTM D5630          | Ash Content (Method B): Filler Content                                                                                                                                                                   |
| ASTM D6580          | Metallic Zinc Content by DSC                                                                                                                                                                             |
| ASTM D6869          | Moisture Content of Plastics by Karl Fischer Titration                                                                                                                                                   |
| ASTM E831           | Thermomechanical Analysis (TMA): Thermal Expansion, CTE, CLTE                                                                                                                                            |
| ASTM E1064          | Water in Organic Liquids by Karl Fischer Titration                                                                                                                                                       |
| ASTM E1131          | Thermogravimetric Analysis (TGA):<br>Ash Content, Filler Content, Carbon Content, Volatility Studies                                                                                                     |

| <b><u>Test Method:</u></b> | <b><u>Test Description:</u></b>                                                                                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASTM E1252                 | Infrared Spectra for Qualitative Analysis:<br>FT Infrared Microscopy, IR Scan, FTIR Analysis, Organic Material Identification                                                                                                              |
| ASTM E1545                 | Thermomechanical Analysis (TMA): Glass Transition (Tg)                                                                                                                                                                                     |
| EDS                        | Energy Dispersive Spectroscopy (EDS):<br>EDX, Elemental Scan, Micro Identification, Contaminant Identification                                                                                                                             |
| GC                         | Gas Chromatography (GC):<br>Mass Spectrometry (GC/MS), Identify and Quantify Components of Organic Mixtures, Flame Ionization (GC/FID), Quantify Components of Organic Mixtures, Phthalate Content,<br>Methyl Methacrylate Monomer Content |
| GDS                        | Glow Discharge Spectrometry (GDS):<br>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 62                     | Water Absorption                                                                                                                                                                                                                           |
| ISO 307                    | Viscosity Number of Polyamides: Dilute Solution Viscosity                                                                                                                                                                                  |
| ISO 1133                   | Melt Flow Rate:<br>Melt Mass Flow Rate (MFR), Melt Volume Flow Rate (MVR)                                                                                                                                                                  |
| ISO 1183-1                 | Density and Specific Gravity by Immersion                                                                                                                                                                                                  |
| ISO 1183-2                 | Density by Density Gradient Column                                                                                                                                                                                                         |
| ISO 3451                   | Ash Content by Direct Calcination (Method A): Filler Content                                                                                                                                                                               |
| ISO 11357                  | Differential Scanning Calorimeter (DSC)                                                                                                                                                                                                    |
| ISO 11358                  | Thermogravimetric Analysis (TGA)                                                                                                                                                                                                           |
| ISO 11359                  | Thermomechanical Analysis (TMA)                                                                                                                                                                                                            |
| XRF                        | X-Ray Fluorescence (XRF):<br>Chemical Analysis of Elements Na to U, Elemental Identification, Heavy Metals, Trace Elements, Restriction of Hazardous Substances (ROHS), Chlorine in Oil                                                    |

*This laboratory also uses client/custom specifications directly related to the testing technologies listed above.*



The American Association for Laboratory Accreditation

World Class Accreditation

# 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 17025:2005 *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 8 January 2009).

Presented this 24th day of November 2010.



  
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President & CEO

For the Accreditation Council  
Certificate Number 0326.02  
Valid to November 30, 2012

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