



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ADVANCED COMPOSITES, INC. TENNESSEE FACILITY – ENGINEERING

3074 Sidco Drive
Nashville, TN 37204
Todd Fannin Phone: 615 244 8994

MECHANICAL

Valid To: January 31, 2026

Certificate Number: 1957.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on plastics:

Test:

Test Method(s):

Colorfastness to Burnt Gas Fumes

AATCC TM 23

Izod Pendulum Impact Resistance

ASTM D256; ISO 180

Specular Gloss

ASTM D523

Conditioning Plastics for Testing

ASTM D618; ISO 291

Tensile Properties

ASTM D638; ISO 527-1, -2

Deflection Temperature Under Flexural Load

ASTM D648 (Method B); ISO 75-1, -2

Flexural Properties

ASTM D790; ISO 178

Density and Specific Gravity

ASTM D792 (Method A);
ISO 1183-1 (Method A)

Melt Flow Rate

ASTM D1238; ISO 1133-1

Color Measurement by Data Color, CIE, XYZ,
L-A-B, and Transmittance

ASTM D2244

Thermal Oxidative Stability

ASTM D3012; ISO 4577

Accelerated Ageing and Heat Resistance Tests

ISO 188

Transitional Temperatures and Enthalpies of
Fusion, Crystallization, and Specific Heat Capacity
of Polymers by Differential Scanning Calorimetry

ASTM D3418; ISO 11357-1, -3, -4

High Speed Puncture Properties

ASTM D3763; ISO 6603-2

Test:

Ash Content in Thermoplastics

Coefficient of Linear Thermal Expansion with a Push-Rod Dilatometer

Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis

Thermogravimetric Analysis

Water Resistance

Paint Adhesion

Hydrolysis Resistance

Ford Thermal Shock Test for Coating Adhesion

Ford Water and Soap Spotting/Horizontal Chemical Resistance

Ford Vertical Chemical Resistance

Environmental Cycling

Determining the Resistance to Odor Propagation of Interior Materials

Fogging Characteristics of Trim Materials

Moisture Cold-Cycle

GM Resistance to Fuels

GM Chemical Resistance

GM Sunscreen and Insect Repellant Resistance

Resistance to Scratch and Mar

High Humidity Test

Tape Adhesion

Determination of Volatile and Semi-Volatile Organic Compounds for Vehicle Interior Materials

GM Determining Cure of Painted Plastic Substrates

GM Thermal Shock Test for Coating Adhesion

Test Method(s):ASTM D5630 (Procedure B);
ISO 3451-1 (Method A)

ASTM E228

ASTM E831; ISO 11359-1, -2

ASTM E1131; ISO 11358-1

FLTM BI 104-01 (Method C)

FLTM BI 106-01 (Method D)

FLTM BI 106-03

FLTM BI 107-05

FLTM BI 113-01

FLTM BI 168-01

FLTM BQ 104-07 (Procedure 1)

FLTM BO 131-03; GMW3205;
LP-463KC-09-01

GMW 3235; SAE J1756

GMW14124

GMW14333

GMW14334 (Methods A and B)

GMW14445

GMW14688; PV 3952

GMW14729

GMW14829

GMW15634; VDA 278

GMW15891

GMW15919



Test:

GM Water Jet Tests

Accelerated Exposure of Automotive Interior Trim Components/Exterior Materials Using a Controlled Irradiance Xenon Arc Apparatus

Charpy Impact

Mold Shrinkage

Film Thickness Measurement - Paint

Flammability, Interior Materials

High Strain Rate Tensile Testing of Polymers

Determination of Emission of Organic Compounds

Chip Resistance

Vicat Softening Temperature

Test Method(s):

GMW16745-B

ISO 105-B06;
SAE J1885 (Canceled 2008)/J2412,
SAE J1960 (Canceled 2008)/J2527;
FLTM BO 116-01;
ASTM D7869; TSM0501G

ISO 179-1

ISO 294-4

ISO 2808 (5.4.4.2)

ISO 3795; GMW3232; SAE J369;
49 CFR 571.302 (FMVSS 302)

ISO 18872; SAE J2749

PV 3341; VDA 277

SAE J400; GMW14700

ASTM D1525; ISO 306





Accredited Laboratory

A2LA has accredited

ADVANCED COMPOSITES, INC. TENNESSEE FACILITY – ENGINEERING Nashville, TN

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 8th day of January 2024.

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 1957.02
Valid to January 31, 2026

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