



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:****Test Method(s):**

Ash Content in Thermoplastics	ASTM D5630 (Procedure B); ISO 3451-1 (Method A)
Coefficient of Linear Thermal Expansion with a Push-Rod Dilatometer	ASTM E228
Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis	ASTM E831; ISO 11359-1, -2
Thermogravimetric Analysis	ASTM E1131; ISO 11358-1
Water Resistance	FLTM BI 104-01 (Method C)
Paint Adhesion	FLTM BI 106-01 (Method D)
Hydrolysis Resistance	FLTM BI 106-03
Ford Thermal Shock Test for Coating Adhesion	FLTM BI 107-05
Ford Water and Soap Spotting/Horizontal Chemical Resistance	FLTM BI 113-01
Ford Vertical Chemical Resistance	FLTM BI 168-01
Environmental Cycling	FLTM BQ 104-07 (Procedure 1)
Determining the Resistance to Odor Propagation of Interior Materials	FLTM BO 131-03; GMW3205; LP-463KC-09-01
Fogging Characteristics of Trim Materials	GMW 3235; SAE J1756
Moisture Cold-Cycle	GMW14124
GM Resistance to Fuels	GMW14333
GM Chemical Resistance	GMW14334 (Methods A and B)
GM Sunscreen and Insect Repellant Resistance	GMW14445
Resistance to Scratch and Mar	GMW14688; PV 3952
High Humidity Test	GMW14729
Tape Adhesion	GMW14829
Determination of Volatile and Semi-Volatile Organic Compounds for Vehicle Interior Materials	GMW15634; VDA 278
GM Determining Cure of Painted Plastic Substrates	GMW15891
GM Thermal Shock Test for Coating Adhesion	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 8<sup>th</sup> day of January 2024.

A blue ink signature of 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.*