



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ADVANCED COMPOSITES, INC. TENNESSEE FACILITY – ENGINEERING
3074 Sidco Drive
Nashville, TN 37204
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MECHANICAL

Valid To: January 31, 2028

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
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 and 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
Ash Content in Thermoplastics	ASTM D5630 (Procedure B); ISO 3451-1 (Method A)

Test:

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 & 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 & 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

GM Water Jet Tests

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

Charpy Impact

Test Method(s):

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; PV3900; LP-463KC-09-01

GMW 3235; SAE J1756

GMW14124 (*except Cycles F, G, J, U, V*)

GMW14333

GMW14334 (Methods A & B)

GMW14445

GMW14688; PV 3952

GMW14729

GMW14829

GMW15634; VDA 278

GMW15891

GMW15919

GMW16745-B

ISO 105-B06; SAE J2412, SAE J2527; FLTM BO 116-01; ASTM D7869-13; TSM0501G

ISO 179-1

Test:

Film Thickness Measurement – Paint

Flammability, Interior Materials

High Strain Rate Tensile Testing of Polymers

Determination of Emission of Organic Compounds

Chip Resistance

Paints and Varnishes – Cross-Cut Test

Stellantis Fluids Resistance

Stellantis Fluids Staining

Stellantis/Renault Tackiness Testing

Test Method(s):

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

ISO 2409

LP-463PB-31-01 (Methods B, D, J)

LP.7M052

D44 1115



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 13th day of January 2026.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1957.02
Valid to January 31, 2028

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