SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ATLAS MATERIAL TESTING TECHNOLOGY GMBH
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Linsengericht, Germany 63589
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MECHANICAL

Valid Until: August 31, 2024 Certificate Number: 0717.08

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

Weathering in a Sub-Tropical Environment: Direct and under glass exposures at fixed or variable angle using standard panel racks, special mounting racks; black boxes; automotive interior large component/assembly cabinets; outdoor accelerated exposures using solar tracking racks with and without wetting; special fixtures designed to meet specific client needs, complete climatological data acquisition and reporting.

Evaluations: Visual inspection for all property changes detectable to the unaided eye or under magnification. Instrumental determination of loss of adhesion, chalking, instrumental color, color change, gloss, thickness, transmittance, whiteness index, yellowness index.

On the following products or materials: adhesives & sealants, agricultural & forest products, automotive products (including whole cars), aviation & aerospace materials, building materials (most applications & substrates), coatings, composites, geosynthetics, dyes, glass, inks, leather, packaging, photodegradables, plastics, rubber, textiles, windows & doors, wood & wood products.

REFERENCE STANDARDS APPLICABLE TO OUTDOOR WEATHERING AND EVALUATIONS

AATCC (American Association of Textile Chemists & Colorists)

AATCC TM 169	Weather Resistance of Textiles: Xenon Lamp Exposure 2009
AATCC 177, 2000[1]	Colorfastness to Light at Elevated Temperature and Humidity: Xenon Lamp Apparatus (Withdrawn Standard)
AATCC TM 16.3	Colorfastness to Light: Xenon-Arc 2014

ASTM (American Society for Testing and Materials)

ASTM G151	Standard Practice for Exposing Nonmetallic Materials in Accelerated 2019 Test Devices That Use Laboratory Light Sources
ASTM G154, 2016[1]	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials
ASTM G155, 2021	Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

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DIN (Deutsches Institut für Normung)

DIN EN ISO 4628-4, 2016-07	Paints and Varnishes - Assessment of Coating Damage - Assessment of the Amount and Magnitude of Damage and the Intensity of Uniform Changes in Appearance – Part 6: Evaluation of the Degree of Chalking by the Adhesive Tape Method Textiles Colorfastness
DIN EN ISO 4628-5, 2016-07	Textiles - Paints and varnishes – Evaluation of Degradation of Coatings – Degradation of Quantity and Size of Defects and of Intensity of Uniform Changes in Appearance
DIN EN ISO 4628-6, 2011-12	Textiles - Colour Fastness Tests - Part A02: Grey Scale to Evaluate the Change in Colo Paints and Varnishes - Assessment of Coating Damage - Assessment of the Quantity and Magnitude of Damage Under Intensity of Uniform Changes in Appearance - Part 1 General Introduction and Evaluation System
DIN EN ISO 105-802	Textiles – Colour Fastness Tests - Part 802: Colour Fastness to 2014-11 Artificial Light: Xenon Arc Light
DIN EN ISO 105-B04, 1997-05	Textiles – Colour Fastness Tests - Part B04: Colour Fastness to Artificial Ventilation: Xenon Arc Light
DIN EN ISO 105-806, 2020-12	Textiles – Colour Fastness Tests - Part B06: Colour Fastness and Ageing Against Artificial Light at High Temperatures: Test With Xenon Arc Lamp
DIN EN ISO 16474-2, 2014-03	Coating Materials – Artificial Irradiation or Weathering in Equipment – Part 2: Xenon Arc Lamps
DIN EN ISO 4892-2	Plastics - Artificial Irradiation or Weathering in Equipment 2021-11 Part 2: Xenon lamp
DIN EN 513, 2019-03	Profiles Made of Plasticizer-Free Polyvinyl Chloride (PVC-U) for Manufacture of Windows and Doors - Determination of Weather Fastness and Weather Resistance by Artificial Weathering (Here: Except Impact Resistance)
DIN ISO 12040, 1998-01	Printing and Reproduction Technology - Prints and Printing Inks Tuning of Lightfastness With Filtered Xenon Arc Light
DIN EN ISO 11664-4, 2020-03	Colorimetry – Part 4: CIE 1976 L*a*b* Colour Space
DIN EN ISO 2813 2015-02	Paints and Varnishes – Determination of Gloss Value Under 20º, 60º, and 85º
DIN 67530, 1982-01	Refractometers as a Means for Gloss Assessment of Plane Surfaces of Paint Coatings and Plastics
DIN EN 20105-A02, 1994-10	Paints and Varnishes - Assessment of Coating Damage - Assessment of the Quantity and Magnitude of Damage and the Intensity of Uniform Changes in the Appearance - Part 2: Evaluation of the Degree of Blister
DIN EN ISO 4628-1, 2016-07	Paints and Varnishes - Assessment of Coating Damage - Assessment of the Quantity and Size of Damage and Intensity of Uniform Changes in Appearance - Part 4: Evaluation of the Degree of Cracking
DIN EN ISO 4628-2, 2016-07	Paints and Varnishes - Assessment of Coating Damage - Assessment of the Quantity and Magnitude of Damage and the Intensity of Uniform changes in Appearance – Part 5: Evaluation of the Degree of Exfoliation
DIN EN ISO 16474-3, 2014-03	2016 Paints and Varnishes - Artificial Irradiation or Weathering in Equipment - Part 3: UV Fluorescent Lamps
DIN 75220, 1992-11	Aging of Automotive Components in Solar Simulation Units
DIN EN 60068-2-5 2019-02	Environmental Effects – Part 2-5: Test Methods – Test Sa: Simulate Solar Radiation at Ground Level and Guide to Solar Radiation
DIN EN ISO 2409 2020-12	Coating Materials – Cross Cut Test
DIN EN ISO 22557 2021-02	Coating Materials – Scratch Test with Harness Tester

DIN (Deutsches Institut für Normung) (cont)

DIN EN ISO 4892-3, 2016-10	Plastics – Artificial Irradiation or Weathering in Appliances, Part 3 UV Fluorescent Lamps

Ford

Ford BO 116-01, 2007-08	Exposure of Interior Trim Materials in a Controlled Irradiance Water Cooled Xenon-Arc Apparatus

GMC

GMC-60292	Determination of Colour Fastness and Resistance to Artificial Light

HES

HES D 6601,1999-12	Accelerated Test Method for Light Resistance with Xenon-Arc Lamp

LRL

LRL TM.30.CF.006, 2003-02	Colour Fastness to Light

NES (Nissan Engineering Standard)

NES M 0135, 2008-11	Weather Ability and Light Resistance Test Methods for Synthetic Resin Parts

PV (Prufvorschrift Volkswagen)

PV 1303, 2001-03	Non-Metallic Materials – Exposure Testing for Vehicle Interior Components
PV 1323, 2008-06	Non-Metallic Materials – UV Irradiation of Thermoplastics Outside in the Sun Test
PV 3929, 2008-03	Non-Metallic Materials – Weathering in Dry-Hot Climates
PV 3930, 2008-03	Non-Metallic Materials – Weathering in Warm and Humid Climates

QAC (Quality Assurance Council – L'Oreal)

QAC-MC-151/L, 2005-07	Accelerated Aging Under the Influence of Light

RAL (Terman Institute for Quality Assurance and Labelling)

RAL-GZ 716/1	Plastic windows - Quality Assurance - Section l: Plastic Windows 2013-04 Profile (Section l: Plastic Window Profiles Test Method for PVC Window Profiles, Point 3.13 Weather Resistance and Weather Fastness After Artificial Weathering, Point 3.13.7 Irradiation, Section II: Extruded Gasket Profiles, and Point 3.1.8 Behavior in the Event of Artificial Weathering)

SAAB (SAAB Automobile)

SAAB STD 3159, 1994-10	UV Resistance – Xenon Lamp

SAE (Society of Automotive Engineers)

SAE J1885, 2005-03	Accelerated Exposure of Automotive Interior Trim Components Using a Controlled Irradiance Water Cooled Xenon-Arc Apparatus

SAE (Society of Automotive Engineers) (cont)

SAE J1960, 2004-10	Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Water-Cooled Xenon Arc Apparatus
SAE J2412, 2005	Accelerated Exposure of Automotive Interior Trim Components 2004-05 Using a Controlled Irradiance Xenon-Arc Apparatus
SAE J2527, 2004-02	Performance Based Standard for Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Xenon-Arc Apparatus

TSL

TSL 0601 G, 2008-01	Toyota Engineering Standard – Criteria for Test For Quality of Colour Change by Aging (Method A, B + E)
TSL 3600 G. 7.15 & 7.16, 2008-05	Toyota Engineering Standard – Colour Fastness to High Temperature and Light

VDA (German Association of The Automotive Industry)

VDA 75202, 2001-08	Materials Used in the Interior of Motor Vehicles - Colour Fastness Test Xenon Arc Light and Ageing Behavior Against Light at High Temperatures

[1]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

ATLAS MATERIAL TESTING TECHNOLOGY GMBH

Linsengericht, GERMANY

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 9th day of August 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0717.08
Valid to August 31, 2024
Revised August 25, 2023

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