



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Q-LAB ARIZONA
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MECHANICAL

Valid To: September 30, 2020

Certificate Number: 0859.02

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

Testing to determine material durability using outdoor and laboratory accelerated methods, direct exposure, black box, and under glass exposures with backed and un-backed mounting, visual and instrumental evaluations to measure degradation effects, including gloss and color, mechanical measurements of physical properties before and after exposure.

On the following materials:

Automotive Components, Plastics, Paints, Textiles, Roofing, Sealants, Glass, Photovoltaic and Solar Heating Materials

Using the following test methods:

Test

Test Method(s)

Outdoor Weathering

Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles	AAMA 303
Atmospheric Environmental Exposure Testing of Nonmetallic Materials	ASTM G7/G7M
Conducting Exposures to Daylight Filtered Through Glass	ASTM G24
Exterior Exposure of Paints on Wood	ASTM D1006
Exterior Exposure of Paints on Steel	ASTM D1014
Outdoor Weathering of Plastics	ASTM D1435
Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding	ASTM D3679, Sections 5.10, 6.10, 6.11, 6.13
Conducting Accelerated Outdoor Exposure Tests of Coatings	ASTM D4141
Lightfastness of Colorants used in Artists' Materials	ASTM D4303
Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profile Extrusions used for Assembled Windows and Doors	ASTM D4726
Color and Appearance Retention of Solid Colored Plastic Siding Products	ASTM D6864
Color and Appearance Retention of Variegated Colored Plastic Siding Products	ASTM D7251
Standard Specification for Insulated Vinyl Siding	ASTM D7793
Color and Appearance Retention of Solid and Variegated Colored Plastic Siding Products using CIELab	ASTM D7856
Outdoor Exposure of Trim Materials	LP-463KB-19-01
Coating Materials and Coatings Systems for Exterior Wood	DIN EN 927, Part 3

Test

Test Method(s)

Outdoor Weathering (continued)

Florida and Arizona Outdoor Exposure Test	Ford BI160-01
Exterior Weatherability of Integrally Colored Plastics	GM 9327P (Withdrawn 2011) ¹
Outdoor Weathering of Automotive Exterior Materials	GMW 14873; GM 9163P (Withdrawn 2006) ¹
Plastics – Methods of Exposure to Solar Radiation	
Part 1 – General Guidance	ISO 877-1
Part 2 – Direct Weathering and Exposure Behind Window Glass	ISO 877-2
Part 3 – Intensified Weathering Using Concentrated Solar Radiation	ISO 877-3
Paints and Varnishes: Natural Weathering	ISO 2810
Plastic Materials for Optical Parts Using Concentrated Natural Sunlight	SAE J576
Outdoor Weathering of Exterior Materials	SAE J1976

Accelerated Testing

Performance Requirements and Test Procedure for Organic Coatings of Fiber Reinforce Thermoset Profiles	AAMA 623
Performance Requirements and Test Procedures for High Performance Organic Coatings on Fiber Reinforced Thermoset Profiles	AAMA 624
Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Fiber Reinforced Thermoset Profiles	AAMA 625
Performing Accelerated Outdoor Weathering of Plastics Using Concentrated Natural Sunlight	ASTM D4364
Performing Accelerated Outdoor Weathering of Pressure-Sensitive Tapes Using Concentrated Natural Sunlight	ASTM D5105
Performing Accelerated Weathering of Factory Coated Embossed Hardboard Using Concentrated Natural Sunlight and a Soak-Freezing-Thaw Procedure	ASTM D5722
Performing Accelerated Outdoor Weathering of Nonmetallic Material	ASTM G90
Outdoor Weathering Test: Ford Tracking Box	FORD DVM-0020
Weathering Exposure Tests for Interior Trim	GM 9538P (Withdrawn 2018) ¹
Natural Weathering Exposure Tests for Interior Trims/Materials	GMW 3417
Conducting Exposures in Outdoor Glass-Covered Exposure Apparatus with Air-Circulator	ASTM G201
Accelerated Exposure of Automotive Exterior Materials Using a Solar Fresnel Reflector Apparatus	SAE J1961

Evaluation Methods

Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates	ASTM E313
Test Method for Specular Gloss	ASTM D523
Evaluating Degree of Rusting on Painted Steel Surfaces	ASTM D610
Evaluating Degree of Checking of Exterior Paints	ASTM D660
Evaluating Degree of Cracking of Exterior Paints	ASTM D661
Evaluating Degree of Erosion of Exterior Paints	ASTM D662
Evaluating Degree of Blistering of Paints	ASTM D714
Evaluating Degree of Flaking (Scaling) of Exterior Paints	ASTM D772



Test**Test Method(s)****Evaluation Methods (continued)**

Haze and Luminous Transmittance of Transparent Plastic (Method B)	ASTM D1003
Visual Evaluation of Color Difference of Opaque Materials Test Method for Yellowness Index of Plastics	ASTM D1729 ASTM D1925-70 (88) (Withdrawn 1995) ¹ ASTM D2244
Calculation of Color Differences from Instrumentally Measured Color Coordinates	
Evaluation of Visual Color Difference with a Grey Scale	ASTM D2616
Evaluating Degree of Surface Disfigurement of Paint Films by Microbial Growth or Dirt Accumulation	ASTM D3274
Measuring Adhesion by Tape Test	ASTM D3359
Evaluating the Degree of Chalking of Exterior Paint Films	ASTM D4214
Obtaining Spectrometric Data for Object Color Evaluation	ASTM E1164
Reflectance Factor and Color by Spectrophotometry	ASTM E1331
Transmittance and Color by Spectrophotometry Using Hemispherical Geometry	ASTM E1348
Tape Adhesion Test for Paint Finishes	GM 9071P (Withdrawn 2012) ¹
Evaluation of Color and Pigments	ISO 4582
Grey Scale for Assessing Change in Colour	ISO 105-A02
Determination of Specular Gloss on Non-Metallic Paint Films at 20°, 60° & 85°	ISO 2813
Paints and Varnishes Evaluation of Degradation of Coatings	
Part 1 – General Introduction and Designation System	ISO 4628-1
Part 2 – Assessment of Degree of Blistering	ISO 4628-2
Part 3 – Assessment of Degree of Rusting	ISO 4628-3
Part 4 – Assessment of Degree of Cracking	ISO 4628-4
Part 5 – Assessment of Degree of Flaking	ISO 4628-5
Part 6 – Assessment of Degree of Chalking by Tape Method	ISO 4628-6
Part 7 – Assessment of Degree of Chalking by Velvet Method	ISO 4628-7
Instrumental Color Difference Measurement for Exterior Finishes, Textiles and Trim	SAE J1545
Instrumental Color Difference Measurements for Colorfastness of Automotive Interior Trim Materials	SAE J1767

Miscellaneous Methods

Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to a Ferrous Base	ASTM D1186-93 (Withdrawn 2006) ¹
Nondestructive Measurement of Dry Film Thickness of Nonconductive Coatings Applied to a Non-Ferrous Base	ASTM D1400-00 (Withdrawn 2006) ¹
Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals	ASTM D7091
Dry Film Thickness of Protective Coating Systems by Destructive Means	ASTM D4138
Conditioning and Handling of Nonmetallic Materials for Natural and Artificial Weathering Tests	ASTM G147

¹This 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

Q-LAB ARIZONA

Buckeye, AZ

for technical competence in the field of

Mechanical 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 April 2017).



Presented this 1st day of October 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 0859.02
Valid to September 30, 2020

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