



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: September 30, 2026

Certificate Number: 0859.01

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:

Laboratory Accelerated Weathering and Corrosion Exposures:

Using controlled irradiance xenon arc Q-SUN™ chambers, fluorescent-ultraviolet condensation QUV™ apparatus, Q-FOG™ cyclic corrosion testers, laboratory ovens, environmental chambers and controlled temperature baths.

Natural Weathering in a Sub-Tropical Exposure Environment:

Through direct and under glass exposures at fixed angles using Q-RACK™ standard panel racks, special mounting racks, and black boxes with backed and unbacked mounting or AIM box™ automotive interior sealed cabinets with complete climatological data acquisition and reporting.

Natural Weathering in a Northern Temperate Exposure Environment (select test methods):

Through direct exposures at fixed angles using Q-RACK™ standard panel racks and special mounting racks, with backed and unbacked mounting.

Evaluations:

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.

**Florida Subtropical Outdoor Weathering**

<b>OUTDOOR WEATHERING AND CORROSION RESISTANCE</b>		
<b>Type of Test <sup>1</sup></b>	<b>Measured Conditions</b>	<b>Exposure Parameters &amp; Capabilities</b>
Natural Weathering Resistance: <i>Q-RACK Testing</i>	Radiation  Exposure Angle  Air temperature  Black and White Panel Temperature  Time of Wetness  Wind speed  Wind direction  Precipitation	Low-cut grass ground cover  Variable Angle Test Fixtures (5°, 25°, 45° & 90° common)  Unbacked, mesh-backed, plywood backed and black box exposure  Direct or under glass  Benchmark Subtropical Climate (~15-35°C, 53-100% RH)
Enhanced Outdoor Corrosion Resistance: <i>Salt-Spray</i>		Salt-spray application
Enhanced Outdoor Weathering Resistance: <i>Mildew Enhanced</i>		High-humidity, biologically active exposure area
Enhanced Outdoor Weathering Resistance: <i>Acid-Etch</i>		Acid-spray application
Enhanced Outdoor Weathering Resistance: <i>Wet Stack</i>		Wet stack exposure

<b>OUTDOOR ACCELERATED WEATHERING RESISTANCE</b>		
<b>Type of Test <sup>1</sup></b>	<b>Measured Conditions</b>	<b>Exposure Parameters &amp; Capabilities</b>
Glass-Covered Apparatus with Air Circulation: <i>AIM Box Testing</i>	Radiation Exposure Angle  Black Panel Temperature	Static Test Fixtures at 45° South Angle Unbacked, mesh-backed, and plywood backed exposure Tempered or laminated glass Temperature-controlled

**Laboratory Accelerated Weathering, Lightfastness & Corrosion Testing**

<b>WEATHER DURABILITY TESTING WITH XENON ARC LAMPS</b>		
<b>Type of Test <sup>1</sup></b>	<b>Measurement / Test Parameter</b>	<b>Measurement and Testing Range</b>
Weathering Resistance: <i>Q-SUN</i>	Irradiance	0.25-1.30 W/m <sup>2</sup> @ 340 nm 0.45-2.40 W/m <sup>2</sup> @ 420 nm 20-125 W/m <sup>2</sup> @ TUV (300 - 400 nm)
	Optical Filter	Daylight Extended UV
	Chamber Temperature	25-65 °C
	BST/BPT Temperature	35-120 °C
	Moisture	10-95 % RH Water Spray
	Cyclic Capability	Light, Dark Light+Spray, Dark+Spray Front + Back Spray Front + Dual Solution Spray
Colorfastness to Window-Filtered Light: <i>Q-SUN</i>	Irradiance	0.25-0.85 W/m <sup>2</sup> @ 340 nm 0.45-2.40 W/m <sup>2</sup> @ 420 nm 20-108 W/m <sup>2</sup> @ TUV (300 - 400 nm)
	Optical Filter	Window
	Chamber Temperature	25-65 °C
	BST/BPT Temperature	35-120 °C
	Moisture	10-95 % Relative Humidity
	Cyclic Capability	Light, Dark

<b>WEATHER DURABILITY TESTING WITH FLUORESCENT UV LAMPS</b>		
<b>Type of Test <sup>1</sup></b>	<b>Measurement / Test Parameter</b>	<b>Measurement and Testing Range</b>
Weathering Resistance: <i>QUV</i>	Lamps	UVA-340, -351, UVB-313, UVC-254
	Irradiance	0.20-2.04 W/m <sup>2</sup> @ 340 nm (UVA-340) 0.20-1.54 W/m <sup>2</sup> @ 340 nm (UVA-351) 0.20-2.04 W/m <sup>2</sup> @ 310 nm (UVB-313) 1.0-13.0 mW/cm <sup>2</sup> @254 nm (UVC-254)
	BST/BPT Temperature	35 - 80 °C
	Moisture	Continuous condensation Water Spray
	Cyclic Capability	Light, Dark Light + Condensation or Water Spray Dark + Condensation or Water Spray

<b>CORROSION RESISTANCE TESTING</b>		
<b>Type of Test <sup>1</sup></b>	<b>Measurement / Test Parameter</b>	<b>Measurement and Testing Range</b>
Cyclic Corrosion: <i>Q-FOG</i>	Chamber Temperature Solution Solution Application  Cyclic Capability	20-70 °C NaCl, other electrolyte solutions Fog Shower (Spray)  Fog Shower RH Control (10-95%) Dry

### ***Weathering and Corrosion Evaluations***

<b>Type of Test <sup>1</sup></b>	<b>Reportable Parameters</b>	<b>Equipment Capabilities/Ranges</b>
Dry Film Thickness	µm (inch mils)	0-500 µm (0-20 mils)
Instrumental Color	<u>Scales</u> CIELAB, Hunter Lab, YXZ, Yxy, YI, WI, Instrumental Gray Scale <u>Tolerances</u> DE, DE2000, CMC	Geometry 45/0 8° Sphere Multi-Angle (-15°, 15°, 25°, 45°, 75°, 110°)
Specular Gloss	20°, 60° & 85°	20° 0-2000 GU 60° 0-1000 GU 85° 0-160 GU
Visual Assessment (qualitative)	Blistering Chalking Checking/Cracking Chip Impact Color (visual) Corrosion Dirt Erosion Flaking Mildew Growth Surface Rust Visual Gray Scale	Light Booth <i>Illuminant</i> D65 A CWF <i>Intensity</i> 1080 - 1340 lux  North Facing Window

***Physical and Mechanical Testing***

<b>Type of Test <sup>1</sup></b>	<b>Measurement / Test Parameter</b>	<b>Measurement and Testing Range</b>
Bend	Cylindrical and Conical	Cylindrical mandrel ranges 5.5 in wide over diameters of 3/8, 1/2, 5/8, 3/4 and 1 in Conical mandrel ranges 38 -3.2 mm over 20.3 cm (1.5 - 1/8 in. over 8 in)
Chip Impact	Chilled iron grit Water worn gravel	Gravel sizes 4-5 mm angular 9.5-15.9 mm Air pressures 0-70 psi Impact time 0-33 sec. Volume per cycle (max) 0-500 g
Contact Angle	RODI Water	20 uL
Crocking	Dry and wet staining	Cycles 1-50 cycles
Destructive Dry Film Thickness	mils	Cutting Tips 1x, 2x, 5x, 10x (mils)
Falling Sand Abrasion	Natural silica sand	Sand particulate 0.6-1.18 mm Volume of reservoir 2L
Falling Weight Impact	Round and cylindrical	Sizes ½ and 5/8 in. indenter Weights 4-16 lb. weight Max Force 160 in. lb.
Heat Build-up via Infrared Heat Lamp	Predicted solar heat build up	250 W Lamp (IR) 0-100°C Type K Thermocouple
Immersion	Water bath	Ambient - 80°C
Length measurement		Micrometer (0-25 mm.) Caliper (0-150 mm.) Ruler (0-150 mm) Microscope (0.05-5 mm)
Pencil Hardness	Gouge and Scratch Hardness	Pencil range 4H - 4B

Type of Test <sup>1</sup>	Measurement / Test Parameter	Measurement and Testing Range
Specimen Weighing <sup>2</sup>	Mass	0.000 - 210.000 g 0.0 - 1500.0 g
Taber Abraser	Revolution (cycles)	Wheels CS10P, 10F, 10, 17 Weights 250-1000 gram
Tape Adhesion	Cross-hatch and X-Scribe	1-3 mm spacing Scribe tools Single blade or Multi-cutter

<sup>1</sup> Using the following test methods in addition to customer-supplied methods directly related to the types of tests and parameters above:

#### **OUTDOOR WEATHERING: Q-RACK™ TESTING**

ASTM G7 <sup>3</sup>	Atmospheric Environmental Exposure Testing of Nonmetallic Materials
ASTM G24	Conducting Exposures to Daylight Filtered Through Glass
ASTM G50	Outdoor Corrosion Test
ASTM D7376	Outdoor Evaluation of Wet Stack Storage Conditions on Coil-Coated Metals
Galvanotechnick 1/2006	The Southern Florida Acid Rain Test
SAE J576	Plastic Materials for Optical Parts
SAE J1976 <sup>3</sup>	Outdoor Weathering of Exterior Materials

#### **OUTDOOR WEATHERING: AIM™ BOX TESTING**

ASTM G201	Conducting Exposures in Outdoor Glass-Covered Exposure Apparatus with Air-Circulator
GMW 3417 ( <i>excluding codes F2 and F3</i> )	Natural Weathering Exposure of Interior Trim/Materials

#### **LABORATORY ACCELERATED WEATHERING: TESTING WITH Q-SUN™ XENON ARC LAMPS**

ASTM G155	Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials
ISO 4892-2	Plastics- Methods of Exposure to Laboratory Light Sources; Xenon arc Sources

#### **LABORATORY ACCELERATED WEATHERING: TESTING WITH QUV™ FLUORESCENT UV LAMPS**

ASTM G154	Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
ISO 4892-3	Plastics- Methods of Exposure to Laboratory Light Sources; Fluorescent UV Lamps

**LABORATORY ACCELERATED WEATHERING: Q-FOG™ CORROSION RESISTANCE TESTING**

ASTM B117	Salt Spray (Fog) Testing
ISO 9227 (NSS Only)	Corrosion Tests in Artificial Atmosphere - Salt Spray Tests

**WEATHERING AND CORROSION EVALUATIONS: DRY FILM THICKNESS (DFT)**

ASTM D7091	Dry Film Thickness of Ferrous and Non-Ferrous Metals
ISO 2178	Thickness of Coating on Magnetic Substrates
ISO 2360	Thickness of Coating on Non-Magnetic Substrates

**WEATHERING AND CORROSION EVALUATIONS: INSTRUMENTAL COLOR**

ASTM D1003, Method B	Haze and Transmittance of Transparent Plastics
ASTM D2244 <sup>3</sup>	Calculation of Color Differences from Instrumentally Measured Color Coordinates
ISO 4582	Plastics — Determination of changes in colour and variations in properties

**WEATHERING AND CORROSION EVALUATIONS: SPECULAR GLOSS**

ASTM D523 <sup>3</sup>	Test Method for Specular Gloss
ISO 2813	Determination of Specular Gloss of Non-Metallic Paint Films at 20°, 60°, and 85°

**WEATHERING AND CORROSION EVALUATIONS: VISUAL ASSESSMENT**

AATCC EP1	Gray Scale for Color Change
AATCC EP2	Gray Scale for Staining
ASTM D2616	Evaluation of Visual Colors Difference with a Gray Scale
ISO 105-A02	Grey Scale for Assessing Change in Colour

**PHYSICAL AND MECHANICAL TESTING: BEND**

ASTM D522	Method B: Elongation of Attached Organic Coatings with Mandrel Bend Apparatus
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**PHYSICAL AND MECHANICAL TESTING: CHIP IMPACT**

ASTM D3170	Chipping Resistance of Coatings
SAE J400	Test for Chip Resistance of Surface Coatings

**PHYSICAL AND MECHANICAL TESTING: CONTACT ANGLE**

ASTM D7334	Surface Wettability of Coatings, Substrates and Pigments by Advancing Contact Angle Measurement
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**PHYSICAL AND MECHANICAL TESTING: CROCKING**

ISO 20433	Colour Fastness to Crocking
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**PHYSICAL AND MECHANICAL TESTING: DESTRUCTIVE DRY FILM THICKNESS**

ASTM D4138 (Procedure A)	Destructive Dry Film Thickness
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**PHYSICAL AND MECHANICAL TESTING: FALLING SAND ABRASION**

ASTM D968 (Method A)	Abrasion Resistance of Organic Coatings by Falling Abrasive
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**PHYSICAL AND MECHANICAL TESTING: FALLING WEIGHT IMPACT**

ASTM D2794 Resistance of Organic Coatings to the effects of Rapid Deformation (Impact)

**PHYSICAL AND MECHANICAL TESTING: HEAT BUILD-UP VIA INFRARED HEAT LAMP**

ASTM D4803 Predicting Heat Buildup in PVC Building Products

**PHYSICAL AND MECHANICAL TESTING: IMMERSION**

FLTM BI 104-01 Water Immersion Test for Painted Panels and Parts

**PHYSICAL AND MECHANICAL TESTING: PENCIL HARDNESS**

ASTM D3363 Film Hardness by Pencil Test

**PHYSICAL AND MECHANICAL TESTING: TABER ABRASER**

ASTM D4060 Abrasion Resistance of Organic Coatings by Taber Abraser

**PHYSICAL AND MECHANICAL TESTING: TAPE ADHESION**

ASTM D3359 Measuring Adhesion by Tape Test  
ISO 2409 Paints and Varnishes – Cross-Cut Test

***Additional Standards***

**OUTDOOR WEATHERING: Q-RACK TESTING**

AATCC TM 1111<sup>3</sup> Weather Resistance of Textiles  
ASTM C1589 Outdoor Weathering Sealants  
ASTM D1006<sup>3</sup> Exterior Exposure of Paints on Wood  
ASTM D1014 Exterior Exposure of Paints on Steel  
ASTM D1435<sup>3</sup> Outdoor Weathering of Plastics  
ASTM D3424 Lightfastness and Weatherability of Printed Matter  
(Method 1 & 2)  
ASTM D3456<sup>3</sup> Exterior Exposure Test of Paint Films to Microbiological Attack  
ASTM D3679<sup>3</sup> Standard Spec for Rigid Poly (Vinyl Chloride) (PVC) Siding  
ASTM D4141 Conducting Accelerated Outdoor Exposure Tests of Coatings  
ASTM D4303 Lightfastness of Colorants used in Artists Materials  
(Method A & C)  
ASTM D4726<sup>3</sup> Standard Spec for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profile  
Extrusions used for Assembled Windows and Doors  
ASTM D5272<sup>3</sup> Outdoor Exposure Testing of Photodegradable Plastics  
ASTM D6675 Salt Accelerated Outdoor Corrosion Test  
ASTM D6864<sup>3</sup> Plastic Siding Weathering  
ASTM D7251<sup>3</sup> Color and Appearance Retention of Variegated Color Plastic Siding  
ASTM D7793<sup>3</sup> Standard Specification for Insulated Siding  
ASTM D7856 Color and Appearance Retention of Solid and Variegated Color Plastic  
Siding Products using CIELab Color Space  
EN 13523-19 Coil Coated Metals - Atmosphere Exposure Testing  
FLTM BI 160-01 Florida and Arizona Outdoor Exposure Test  
GMW 14873; Outdoor Weathering of Automotive Exterior Materials  
GM 9163P (withdrawn  
2006)



**OUTDOOR WEATHERING: Q-RACK TESTING (CONT)**

ISO 105 B01	Textiles – Tests for Colorfastness to Light; Daylight
ISO 877-1, -2	Plastics – Methods of Exposure to Weathering, Direct, Under Glass
ISO 2810	Paints and Varnishes: Natural Weathering
LP463-KB19-01	Outdoor Exposure of Trim Materials
LP463-PB34-01	Florida Exposure Testing of Painted Surfaces

**LABORATORY ACCELERATED WEATHERING: TESTING WITH XENON ARC LAMPS**

AATCC TM16	Colorfastness to Light
AATCC TM169	Weather Resistance of Textiles: Xenon Lamp Exposure
ASTM C734	Low Temperature Flexibility of Latex Sealants After Artificial Weathering
ASTM C1257 (UV & Xenon Arc)	Accelerated Weathering of Solvent-Release-Type Sealants
ASTM C1442 (UV & Xenon Arc)	Accelerated Weathering of Sealants
ASTM C1501 (UV & Xenon Arc)	Color Stability of Building Sealants
ASTM D2565	Xenon Arc Exposure of Plastics Intended for Outdoor Applications
ASTM D3424 (Method 3 & 4)	Lightfastness and Weatherability of Printed Matter (Withdrawn 2020)
ASTM D4303 (Method C & D)	Lightfastness of Colorants used in Artists' Materials
ASTM D4355	Deterioration of Geotextiles by Exposure to Xenon Arc
ASTM D4459	Xenon Arc Exposure of Plastics Intended for Indoor Applications
ASTM D4798	Practice for Accelerated Weathering of Bituminous Materials (Xenon Arc)
ASTM D5071	Exposure of Photodegradable Plastics in a Xenon Arc Apparatus
ASTM D6551	Accelerated Weathering of Pressure Sensitive Tapes by Xenon Arc Exposure Apparatus
ASTM D6695	Xenon Arc Exposure of Paint and Related Coatings
ASTM D7356	Accelerated Acid Etch Weathering of Automotive Clearcoats Using a Xenon Arc Exposure Device
ASTM D7869	Xenon Arc Exposure Test with Enhanced Light and Water Exposure for Transportation Coatings
ASTM D904	Exposure of Adhesives to Artificial Light
ASTM F2366	Lightfastness Indoor Inks Xenon with Window Filters
FLTM BO 116-01	Resistance to Interior Weathering
GB/T 1865	Paints and varnishes - Artificial weathering and exposure to artificial radiation - Exposure to filtered Xenon Arc radiation
GB/T 8427	Textiles-Tests for colour fastness-Colour fastness to artificial light: Xenon Arc fading lamp test
GB/T 16422.1 (UV & Xenon Arc)	Part 1: General Guidance
GB/T 16422.2	Part 2: Xenon Arc sources
ISO 16474-1 (UV & Xenon Arc)	Part 1 - General Guidance
ISO 16474-2	Part 2 – Xenon Arc Lamps
ISO 11341 (withdrawn 2013)	Xenon Arc Testing for Paints

**LABORATORY ACCELERATED WEATHERING: TESTING WITH XENON ARC LAMPS**  
**(CONT)**

JIS D 0205 (UV, Xenon Only)	Weatherability for Automotive Parts (UV, Xenon Only)
MIL-STD-810 Procedure II, Actinic Effects	Solar Radiation (Sunshine)
SAE J2412	Accelerated Exposure Automotive Interior Trim Components using a Controlled Irradiance Xenon Arc Apparatus
SAE J2527	Performance Based Standard for Accelerated Exposure of Automotive Exterior Materials using a Controlled Irradiance Xenon Arc Apparatus
VW PV 1306	Exposure test for Determining the Tackiness of Polypropylene Parts
VW PV 3929	Non-Metallic Materials, Weathering in Dry, Hot Climate
VW PV 3930	Non-Metallic Materials, Weathering in Moist, Hot Climate

**LABORATORY ACCELERATED WEATHERING: TESTING WITH FLUORESCENT UV LAMPS**

AATCC TM186	Weather Resistance: UV Light and Moisture Exposure
ASTM D3424 (Method 8)	Lightfastness and Weatherability of Printed Matter (Withdrawn 2020)
ASTM D4329	Fluorescent UV Exposure of Plastics
ASTM D4585	Testing Water Resistance of Coatings Using Controlled Condensation
ASTM D4587	Fluorescent UV Condensation Exposure of Paint and Related Coatings
ASTM D4674 (Method III & IV)	Accelerated Testing Color Stability of Indoor Plastics
ASTM D4799 (UV & Condensation)	Practice for Accelerated Weathering of Bituminous Materials
ASTM D5208	Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics
ASTM D5894 (UV & Condensation)	Cyclic Salt Fog/UV Exposure of Painted Metal
ASTM F1945 (excluding 11.2)	Lightfastness Indoor Inks Fluorescent Lighting
ASTM G53-96 (Withdrawn 2000)	Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials
ASTM G224	Operating UVC Lamp Apparatus for Exposure of Materials
EN 927-6	Exposure of Wood Coatings to Artificial Weathering using Fluorescent UV and Water
EN 13523-10	Coil Coated Metals – Resistance to Fluorescent UV and Water Condensation
FLTM BI 104-02 (Condensation)	Condensing Water Vapor Test
GB/T 16422.3	Part 3: Fluorescent UV lamps
ISO 11507 (withdrawn 2013)	Fluorescent UV Test on Paints
ISO 16474-3	Part 3 – Fluorescent UV Lamps
SAE J2020	Accelerated Exposure of Automotive Exterior Materials using a Fluorescent UV and Condensation Apparatus

**LABORATORY ACCELERATED WEATHERING: CORROSION RESISTANCE TESTING**

ASTM D1735	Water Resistance of Coatings using Water Fog Apparatus
ASTM D2247	Water Resistance to 100% relative Humidity
ASTM D2803	Filiform Corrosion

**LABORATORY ACCELERATED WEATHERING: CORROSION RESISTANCE TESTING**  
**(CONT)**

ASTM G85 ( <i>except A4</i> )	Modified Salt Spray (Fog) Testing
EN 13523-8	Coil Coated Metals - Resistance to Salt Spray (Fog)
FLTM BI 103-01	Salt Spray Resistance Test for Painted Panels and Parts
Ford TM-00.00-L-467	Laboratory Accelerated Cyclic Corrosion Test
GB/T 1771	Paints and varnishes – Determination of resistance to neutral salt spray (fog)
GB/T 10125	Corrosion tests in artificial atmospheres-salt spray tests
GMW 3286	Salt Spray Test
GM 9125P (withdrawn 2013)	Laboratory Accelerated Exposure of Automotive Materials (UV)
GM 9505P, Cycle O (inactive 2010);	Automotive Environmental Cycling
GMW14124, Cycle O	
GMW 14729	High Humidity Test
GMW 14872	Cyclic Corrosion Laboratory Test
GMW 15282	Corrosion/Undercutting Scribe Creepback
GMW 15288; GM 9511P (withdrawn 2007)	Scab Corrosion Creepback of Paint Systems on Metal Substrates
SAE J1959	Underbody Vehicle Corrosion Protection
SAE J2334	Cosmetic Corrosion Lab Test
VDA 233-102	Cyclic Corrosion of Materials and Components in Automotive Construction
VW PV 1210	Corrosion Test Body and Attachments

**WEATHERING AND CORROSION EVALUATIONS**

AATCC EP6	Instrumental Color Measurement
AATCC EP9	Visual Assessment of Color Difference of Textiles
ASTM D610	Evaluating Degree of Rusting on Painted Steel Surfaces
ASTM D660	Evaluating Degree of Checking of Exterior Paints
ASTM D661	Evaluating Degree of Cracking of Exterior Paints
ASTM D662	Evaluating Degree of Erosion of Exterior Paints
ASTM D714	Evaluating Degree of Blistering of Paints
ASTM D772	Evaluating Degree of Flaking (Scaling) of Exterior Paints
ASTM D1654	Evaluation of Painted or Coated Specimens to Corrosive Environments
ASTM D1729	Visual Evaluation of Color Difference of Opaque Materials
ASTM D1925-70 (withdrawn 1995)	Test Method for Yellowness Index of Plastics
ASTM D3274	Evaluating Degree of Surface Disfigurement of Paint Films by Microbial Growth or Dirt Accumulation
ASTM D3719-00 (withdrawn 2009)	Quantifying Dirt Collection on Coated Exterior Panels
ASTM D4214	Evaluating the Degree of Chalking of Exterior Paint Films
ASTM E313	Calculating Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates
ASTM E1164 <sup>3</sup>	Spectrometric Data for Object Color Evaluation
ASTM E1331 <sup>3</sup>	Color by Spectrophotometry Using Hemispherical Geometry
ASTM E1348	Transmittance and Color by Spectrophotometry Using Hemispherical Geometry
ASTM E1349	Color by Spectrophotometry Using Bidirectional (45/0) Geometry

## **WEATHERING AND CORROSION EVALUATIONS (CONT)**

EN 13523 Part 2	Specular Gloss
EN 13523 Part 3	Colour Difference Instrumental Comparison
EN 13523 Part 4	Pencil Hardness
EN 13523 Part 21	Evaluation of Outdoor Exposed Panels
ISO 3668	Paints And Varnishes -- Visual Comparison Of Colour Of Paints
ISO 4628 Part 1	Part 1 - General Introduction and Designation System
ISO 4628 Part 2	Part 2 - Assessment of Degree of Blistering
ISO 4628 Part 3	Part 3 - Assessment of Degree of Rusting
ISO 4628 Part 4	Part 4 - Assessment of Degree of Cracking
ISO 4628 Part 5	Part 5 - Assessment of Degree of Flaking
ISO 4628 Part 6	Part 6 - Assessment of Degree of Chalking by Tape Method
ISO 4628 Part 7	Part 7 - Assessment of Degree of Chalking by Velvet Method
ISO 4628 Part 8	Part 8 – Assessment of Degree of Delamination and Corrosion Around a Scribe or Other Artificial Defect
ISO 4628 Part 10	Part 10 - Assessment of Degree of Filiform Corrosion
SAE J1545	Instrumental Color Difference Measurement for Exterior Finishes, Textiles and Trim
SAE J1767	Instrumental Color of Automotive Trim Material

## **PHYSICAL AND MECHANICAL TESTING**

ASTM D4226	Impact Resistance of Rigid PVC Building Products
FLTM BI 157-04	High Performance Stone Chip Test
FLTM BI 157-06	High Performance Stone Chip Resistance Test New Rating Scale
GMW 14829; GM 9071P (withdrawn 2005)	Tape Adhesion Test for Paint Finishes
GMW 14700	Chip Resistance of Coatings
Volvo STD 1024,7132	Chip Resistance

## **FOR GENERAL TESTING (MULTIPLE DISCIPLINES) <sup>4</sup>**

AAMA 303	Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles
AAMA 305	Specification for Fiber Reinforced Thermoset Profiles
AAMA 307	Specification for Laminates Intended for Use on AAMA Certified Profile
AAMA 308	Voluntary Spec. for Cellular Polyvinyl Chloride (PVC) Exterior Profiles
AAMA 611	Specification for Anodized Architectural Aluminum
AAMA 612	Test Procedures for Combined Coatings of Anodic Oxide and Transparent Organic Coatings on Architectural Aluminum
AAMA 613, AAMA 614, AAMA 615	Test Procedures For Organic Coatings on Plastic Profiles
AAMA 623, AAMA 624, AAMA 625	Test Procedures For Organic Coatings on Fiber Reinforced Thermoset Profiles
AAMA 701/702	Specification for Pile Weatherstripping & Replaceable Fenestration Weatherseals
AAMA 2603, AAMA 2604, AAMA 2605	Test Procedures For Pigmented Organic Coatings on Aluminum Extrusions and Panels
ASTM G147	Conditioning and Handling of Nonmetallic Materials for Natural and Artificial Weathering Tests
ASTM G151	Exposing Nonmetallic Materials in Accelerated Test Devices that use Laboratory Light Sources
ISO 4892-1 (UV, Xenon Only)	Plastics- Methods of Exposure to Laboratory Light Sources; General Guidance

<sup>1</sup> This laboratory meets the A2LA P112 Flexible Scope Policy

<sup>2</sup> This test is not equivalent to that of a calibration.

<sup>3</sup> Northern weathering exposures done at the Q-Lab facility located at 800 Canterbury Road, Westlake, OH 44145

<sup>4</sup> The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with any material specifications included on this Scope; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification.





# Accredited Laboratory

A2LA has accredited

**Q-LAB FLORIDA**

*Homestead, FL*

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 22<sup>nd</sup> day of October 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 0859.01  
Valid to September 30, 2026

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