Partial List of Test Methods & Standards Met by QUV & QCT Weathering Testers

### General
- **ASTM G151** - Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources
- **ASTM G154** - Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Non-Metallic Materials
- **BS 2782** - Part 5, Method 540B (Methods of Exposure to Lab Light Sources)
- **GB/T 14522** – Artificial Weathering Test Method for Plastics, Coatings, and Rubber Materials used for Machinery Industrial Products – Fluorescent UV Lamps

### Automotive
- **Ford FLTM BI 104-02** - Condensing Water Vapor Test (QCT)
- **GM 4367M (General Motors)** - Topcoat Materials - Exterior
- **GM 9125P (General Motors)** - Laboratory Accelerated Exposure of Automotive Material
- **JIS D 0205** - Test Method of Weatherability for Automotive Parts (Japan)
- **NISSAN M0007** - Fluorescent UV/Condensation Test
- **RNES B-00107 (Renault, Nissan)** - Test Method of Clearcoat Cracking (UVB)
- **SAE J2020** - Accelerated Exposure of Automotive Exterior Materials Using a Fluorescent UV & Condensation Apparatus

### Adhesives & Sealants
- **ASTM C1184** - Specification for Structural Silicone Sealants
- **ASTM C1442** - Standard Practice for Conducting Tests on Sealants Using Artificial Weathering Apparatus
- **ASTM D904** - Standard Practice for Exposure of Adhesive Specimens to Artificial Light
- **ASTM D5215** - Standard Test Method for Instrumental Evaluation of Staining of Vinyl Flooring by Adhesives
- **UNE 104-281-88** - Accelerated Testing of Paints and Adhesives with Fluorescent UV Lamps

### Roofing
- **ANSI/RMA IPR-1** - Req. for Non-Reinforced Black EPDM Sheet for Roofing Membrane
- **ANSI/RMA IPR-2** - Req. for Fabric-Reinforced Black EPDM Sheet for Roofing Membrane
- **ANSI/RMA IPR-5** - Req. for Non-Reinforced Non-Black EPDM Sheet for Roofing Membrane
- **ANSI/RMA IPR-6** - Req. for Fabric-Reinforced Non-Black EPDM Sheet for Roofing Membrane
- **ASTM D3105** - List of Test Methods for Elastomeric and Plastomeric Roofing & Waterproofing
- **ASTM D4434** - Std. Specification for PVC Sheet Roofing
- **ASTM D4799** - Test Method for Accelerated Weathering of Bituminous Roofing Materials
- **ASTM D4811** - Standard Specification for Non-vulcanized Rubber Sheet Used as Roof Flashing
- **ASTM D5019** - Standard Specification for Reinforced Non-Vulcanized Polymeric Sheet Used in Roofing Membrane
- **BS 903 Part A54 Annex A & D** - Methods of Testing Vulcanized Rubber
- **CGSB-3754-M** - Canadian General Standards Board Spec. for PVC Roofing & Waterproofing Membrane
- **EN 534** - Corrugated Bitumen Sheets
- **EN 1297** - Flexible sheets for waterproofing—Bitumen, plastic and rubber sheets for roof waterproofing Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water
- **EOTA TR 010** - Exposure procedure for artificial weathering

### UVC Testing
- **BIFMA HCF 8.1-2019** (Furniture) - Health Care Furniture Design Guidelines for Cleanability
- **IEC 60335-1 Annex T** (Appliances) - Household and similar electrical appliances - Safety - Part 1: General requirements (UVC Radiation Effect on non-metallic materials)
Paints and Coatings

ABNT NBR 15.380 - Paints for buildings – Methods for performance evaluation of paints for non-industrial buildings - Resistance to UV irradiation/water vapor condensation, by accelerated test


ASTM D4587 - Standard Practice for Light/Water Exposure of Paint

ASTM D5894 - Standard Practice for Cyclic Salt Fog/UV Exposure of Painted Metal, (Alternating Exposures in a Fog/Dry Cabinet and a UV/Condensation Cabinet)

EN 927-6 - Paints and Varnishes - Coating Materials and Coating Systems for Exterior Wood

GB/T 8013 - Anodic Oxide Coatings and Organic Polymer Coatings on Aluminum and its Alloys

GB/T 16585 - Rubber, Vulcanized Test Method of Resistance to Artificial Weathering – Fluorescent UV Lamps

ISO 15110 - Paints and varnishes - Artificial weathering including acidic deposition

ISO 12944-9 - Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 9: Protective paint systems and laboratory performance test methods for offshore and related structures

ISO 16474-1 - Paints & Varnishes - Methods of Exposure to Laboratory Light Sources - Pt. 1: General Guidance

ISO 16474-3 - Paints & Varnishes - Methods of Exposure to Laboratory Light Sources - Pt. 3: Fluorescent UV Lamps

JIS K 5600-7-8 - Testing Methods for Paints

KS M5982 - Testing Method for Accelerated Weathering

Plastics

ANSI A14.5 - Specification for Accelerated Weathering of Portable Reinforced Plastic Ladders

ANSI C57.12.28 - Specification for Accelerated Weathering of Padmounted Equipment Enclosure Integrity

ASTM D1248 - Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable

ASTM D4329 - Standard Practice for Light/Water Exposure of Plastics

ASTM D4674 - Test Method for Accelerated Testing for Color Stability of Plastics Exposed to Indoor Fluorescent Lighting and Window-Filtered Daylight

ASTM D5208 - Standard Practice for Exposure of Photodegradable Plastics

ASTM D6662 - Standard Specification for Plastic Lumber Decking Boards

DIN 53384 - Testing of plastics, Artificial Weathering and Exposure to Artificial Light

GB/T 16422.3 - Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps

ISO 4892-1 - Plastics - Methods of exposure to laboratory light sources - Part 1: General Guidance

ISO 4892-3 - Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV Lamps

JIS K 7350-3 - Plastics - Methods of Exposure to Laboratory Light Sources - Part 3: Fluorescent UV Lamps

UNE 53-104 - Stability of Plastics Materials Exposed to Simulated Sunlight

Other

AATCC TM 186 (Textiles) - Weather Resistance: UV Light and Moisture Exposure

ASTM E3006 (Photovoltaics) - Standard Practice for Ultraviolet Conditioning of Photovoltaic Modules Using a Fluorescent Ultraviolet (UV) Lamp Apparatus

ASTM F1945 (Printing Inks) - Lightfastness of Ink Jet Prints Exposed to Indoor Fluorescent Lighting

Colts Standard Test (Dyes) – UV Dye Resistance to Fade - QUV

GSB AL 631 (Architectural) – International Quality Guidelines for the Coatings of Aluminum Building Components

IEC 61215 (Photovoltaics) - Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval

ISO 21898 (Packaging) - Flexible Intermediate Bulk Containers (FIBCs) for Non-Dangerous Goods

Notes:

1: Many national standards have been superseded by ISO or IEC standards, which are listed on this document.

2: This document is not fully comprehensive. If a standard is not listed here, it may still be met by the QUV/QCT.

3: Contact Q-Lab for more information about a specific test cycle.

For sales, technical, or repair support, please visit:

Q-Lab.com/support

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