



# 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 Ultraviolet (UV) Lamp Apparatus for Exposure of 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 C1501** - Standard Test Method for Color Stability of Building Construction Sealants as Determined by Laboratory Accelerated Weathering Procedures
- 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** - Standard 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-37.54-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

- ASTM G224** - Standard Practice for Operating UVC Lamp Apparatus for Exposure of Materials
- IEC 60068-2-87** - Environmental testing – Part 2-87: Tests – UV-C exposure of materials and components to simulate ultraviolet germicidal Irradiation or other applications
- 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 D4585** - Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation (QCT)
- 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
- ISO 6270-1** Paints and Varnishes — Determination of resistance to humidity - Part 1: Condensation (single-sided exposure) (QCT)
- ISO 6270-2** Paints & Varnishes — Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir) (QCT)
- 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.



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