



PROWHITE

UV WEATHERING TEST SYSTEMS

PW-K035M

Benchtop UV Accelerated Weathering Tester

Explore material durability in your laboratory.



Single-sided

specimen arrangement

4 UV lamps

600 mm class

7-inch HMI

Ethernet data output

UV exposure. Temperature. Moisture cycles.

Single-sided access. Organised specimen arrangement.

PW-K035M combines fluorescent UV lamps, condensation and water-spray cycles in a benchtop instrument. It supports comparative assessment of material weathering behaviour in quality control and R&D.;



Four parallel UV lamps

Evenly spaced lamps are positioned at equal distances from the specimen plane.

Body-mounted holders

Specimen holders are independent of the lid. Spray nozzles are located in the central section.



UV exposure

UV effects from the selected lamp type.



Condensation

Moisture effects on specimen surfaces.



Water spray

Water wetting of specimen surfaces.

Cycle steps, durations and temperature conditions are configured for the selected test method.

Lamp selection, matched to the test method.

The spectral type of the 600 mm class UV lamps is selected for the intended exposure. The lamp set, test cycle and irradiance calibration are specified together.

UVA-340	UVB-313	UVA-351
OUTDOOR UV	UVB METHODS	BEHIND GLASS
The primary lamp family for representing the short-wave UV portion of sunlight.	For defined accelerated test methods that require shorter-wavelength UVB exposure.	For applications assessing the UV effects of sunlight filtered through window glass.

Different lamp families are not mixed within one test. Alternative sets are evaluated with the selected method and a compatible irradiance measurement profile.

Test method scope

METHOD	APPLICATION
ASTM G154-23	Fluorescent UV exposure of nonmetallic materials
ISO 4892-3:2024	Plastics / fluorescent UV lamps
ISO 16474-3:2021	Paints and varnishes / fluorescent UV lamps
ASTM D4329-26	Plastics / fluorescent UV exposure
ASTM D4587-23	Paints and coatings / UV and condensation
AATCC TM186-2023e	Textiles / UV and periodic wetting
EN 927-6:2018	Exterior wood coatings / UV and water

Method scope depends on the appropriate lamp, cycle, specimen and calibration configuration. This list is not a declaration of independent product certification.

Touchscreen operation. Sensor-based UV control.

Closed-loop control automatically adjusts lamp power in response to the UV sensor measurement. Tests are managed through the instrument's 7-inch touchscreen PLC/HMI.



7-inch

touchscreen PLC/HMI

An integrated control panel for test operation and monitoring of operating values.

Ethernet data output

Ethernet connectivity for transferring test data.

Closed-loop UV irradiance control



Applications by material

Textiles

Outdoor textiles and coated fabrics.

Plastics

Polymers and plastic products.

Coatings

Paints, varnishes and wood coatings.

Colour, gloss and mechanical properties are measured after exposure using the relevant evaluation method.

Benchtop format. Method-specific configuration.

FEATURE	PW-K035M
Model	PW-K035M
Instrument type	Single-sided benchtop UV weathering tester
Test principle	Fluorescent UV, temperature and moisture cycles
Lamp arrangement	4 horizontal fluorescent UV lamps in one bank
Lamp size class	600 mm (nominal class)
UV irradiance control	Closed-loop control with sensor feedback
Control panel	7-inch touchscreen PLC/HMI
Moisture steps	Condensation and water spray
Specimen arrangement	Single-sided; holders independent of the lid
Data transfer	Ethernet data output

Core equipment

- PW-K035M main instrument
- Single-sided, four-lamp arrangement
- 7-inch touchscreen PLC/HMI
- Closed-loop UV control
- Ethernet data output

Lamp options

- UVA-340 / outdoor UV
- UVB-313 / defined UVB methods
- UVA-351 / window-filtered UV

The lamp type is specified at order. Alternative sets are not all included in the standard supply.

The selected lamp set and specimen-holder configuration are specified in the order scope.



PROWHITE

Precision at Every Stage.
Confidence in Every Test.



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