TXL-GEN-024 / 28 October 2026 · One-year manufacturer warranty

Benchtop Dry UVA Exposure Tester (TL-K035M ECO)

Single-sided benchtop instrument for comparative evaluation of material behaviour under dry UVA exposure only. Four parallel UVA fluorescent lamps (600 mm class), UVA-340 or UVA-351 by test method, closed-loop UV control with sensor feedback, 4.3-inch touchscreen PLC/HMI and Ethernet data output. No condensation or water spray.



Model technical data

1	Test type: dry UVA exposure only; no condensation or water spray.
2	Format: single-sided benchtop test chamber.
3	Lamp arrangement: 4 parallel UVA fluorescent lamps; nominal lamp length 600 mm class.
4	Lamp type: UVA-340 or UVA-351 by test method; types are not mixed in one exposure and the lamp type is selected at order.
5	Supported dry cycles: ISO 4892-3:2024 Method B Cycle 5 (UVA-351); ISO 16474-3:2021 Method B Cycle 3 (UVA-351); ASTM D5208-14(2022) Cycle C (UVA-340).
6	UV control: closed-loop with sensor feedback.
7	Specimen holders: body-mounted, independent of the lid; access from one side.
8	Operator interface: 4.3-inch touchscreen PLC/HMI; data output: Ethernet.
9	Cycles requiring condensation or water spray are outside the ECO scope; consider the moisture model TXL-GEN-020 for those cycles.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 400–1000 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 900 × 550 × 650 mm (W × D × H).
Instrument weight	Approx. 40–70 kg net.
Gross / shipping weight	Approx. 60–100 kg gross; estimated packing allowance.
Interfaces	Data interface: Ethernet data output.
Lab requirements	Ventilation and a sturdy bench; no water or drain connection required (no condensation/spray).

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Colour, gloss and property changes after dry UVA exposure
Parameters selected for the method	Lamp type, irradiance, temperature and time
Verification points	UV sensor, cycle record and lamp set

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

• Method code and edition, specimen ID, operator and selected test parameters are linked to the record.

• Irradiance, temperature and moisture stages are time-aligned; spectral band and integration interval are stated when calculating dose.

• Raw measurements, units, valid/invalid test flags and the reported result remain traceable.

• Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

ISO 4892-3 · ISO 16474-3 · ASTM D5208

Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.