

Plastic UV Accelerated Aging Weathering Tester

KASONTTEST®



Equipment summary:

Plastic UV Accelerated Aging Weathering Tester can simulate the sun, rain to damage the material, UV Tester using UV lamp simulate the effect of sunlight, cold rain. Being tested materials are placed in a certain environment which the light and moisture are alternating. The materials are tested for several days or weeks, you can know the damage of material at outside for several months or several years, Damage types include: bleaching, discoloration, loss of light, powder, crack, turbidity, bubble-based, embrittlement, strength decline and oxidation.

Main functions:

UV test machine, the UV lamp can simulate the effect of the sun, and water spray system can simulate the effect of rain. A typical test cycle is usually testing at UV radiation of high temperature and the 100% humidity at dark; Typically used in paint and coatings, automotive, plastic products, wood products, glue, etc.

Corresponding standard:

Accord with ASTM G53-77, ASTM D4355

Applicable industries:

UV Accelerated Aging Weathering Tester is widely used in paint, resins, plastics, printing and packaging, aluminum, adhesives, auto, cosmetics, metals, electronics, electroplating, medicine, etc.

Main feature:**1. Simulated sunlight**

The damage of material durability is mainly caused by the sun's ultraviolet ray. We use UV lamps to simulate sunlight in the ultraviolet part of the short-wave, it produces very little visible or infrared spectral energy. We can choose according to different testing requirements of different wavelengths of UV ultraviolet light, because each lamp in the total energy and wavelength of UV radiation are not the same. Usually, UV lamp can be divided into two kinds of UVA and UVB.

2. UV lamp type

UVA-340 lamp: UVA-340 lamps can simulate short-wave UV light in the sunlight excellently, ie sunlight from 365nm to 295nm cutoff wavelength.

UVB-313 lamps: UVB-313 lamps are usually issued by short-wave UV radiation than the Earth's surface in the strong solar ultraviolet radiation, which can speed up the greatest degree of material aging. However, the lamp may have caused some of the material does not meet the actual damage. UVB-313 lamp is mainly used for quality control and research and development, or on the weather ability of materials strong run the test.

UVA-351 lamp: Simulation of UV sunlight through windows, it is the aging of indoor materials for testing the most effective.

3. The temperature control in each cycle, the temperature can be controlled at a set value. At the same time the board can monitor the temperature of the thermometer. Higher temperature can accelerate the aging process, while temperature control for reproducibility of the test is also very important

4. The water spray system for some applications, the water spray can better simulate the end use of the environmental conditions. Water spray in a simulated drastic changes in temperature and rainfall caused by the thermal shock or mechanical erosion is very effective. Conditions in some practical applications, such as sunlight, heat together the stroke of showers dissipated rapidly, the material will be dramatic changes in temperature, thermal shock, thermal shock for many materials, this is a part of test. QUV water spray to simulate thermal shock and / or stress corrosion. Sprinkler system with 12 nozzles, each side in the test room of 6; sprinkler system can run a few minutes and then shut down. This short cooling water samples quickly and create a thermal shock conditions.

5. Irradiation intensity control: optional matching light intensity control option available to accurately type and reproducible results; light intensity control system allows users to set different requirements of

different test light intensity. Feedback loop devices through its precise control of light intensity; but also can extend the life of fluorescent lamps

Main technical specifications

Bulb number	UV Lamp 3,40W
	ATLAS,UVA340,UVB313,UVC351)
Recorder	Option
Radiometer	Option
UV temperature	From 50 ℃ to 70 ℃
Water and consumption	distilled water, 8 liters / day
Volume	600*500*750mm
Weight	136kg
Power	1 ψ , 120V/60Hz,16A or 230V/50Hz, 9A,1800W(max)

FOCUS IN MATERIAL TEST

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