UV Accelerated Aging Weathering Tester

KASONTEST®

Equipment summary:

The test equipment simulates the damage caused by the sun's ultraviolet light, and the weather resistance test is carried out on the material by exposing the tested material to light under controlled high temperature. It uses ultraviolet lamps to simulate the radiation of sunlight, and simulates dew and rain through condensation and water spraying. In just a few days or weeks, the ultraviolet irradiation equipment can reproduce the effects of outdoors that take months or even years. Damage that takes time to occur, including fading, color change, tarnish, chalking, cracking, cracks, wrinkling, blistering, embrittlement, strength reduction, oxidation, etc. The test results can be used to select new materials and improve existing There is a change in the material, or the formulation of the evaluation material.

Standard

1.GB/T14552-2008 "National Standard of the People's Republic of China--Plastic, Coating, Rubber Materials for Mechanical Industry Products-Artificial Climate Accelerated Test Method" a, Fluorescence UV/condensation test method.

2 GB/T16422.3-1997 GB/T16585-96 related analysis methods.

3.GB/T16585-1996 "National Standard of the People's Republic of China - Test Method for Artificial Weathering of Vulcanized Rubber (Fluorescent UV Lamp)".

4.GB/T16422.3-1997 "Plastic laboratory light source exposure test method" and other corresponding standard items design and manufacture standards.

5.Comply with international testing standards: ASTM D4329, ISO 4892-3, ISO 11507, SAE J2020 and other current UV aging test standards.

Technical Features

1. Provide comprehensive and detailed real-time monitoring and curve recording (controller with recorder function) for important test parameters such as irradiance, temperature, time, etc. Reports and curve printing can also be generated through the computer.
2. Radiation/condensation/water spray test can be carried out independently, and any combination of radiation/condensation/water spray test can also be programmed.
3. It adopts Taiwan industrial level 7-inch true color touch screen control system, which has good stability, monitoring, operability and maintainability.
4. Provide life reference for ultraviolet lamps with expensive materials (the lamps are consumables with a lifespan of about 1600 hours), which is convenient for users to confirm the replacement time of the lamps and saves the cost of use.
5. Adopt automatic water supply and drainage design, and use high-cost high-power water mercury to ensure the flow rate and uniformity of water spray.
6. Most of the main components are international brands, and a small part are domestic brands, which improves the safety and reliability of the product. (For details, please refer to the attached list of main accessories.)
7. The installation and wiring of the electrical part of the equipment shall be carried out in accordance with international electrical standards. Perfect and professional after-sales service.

Main technical specifications

1. Volume and dimensions	Working room size (mm)	1140×640×690 (D depth×W width×H height)
	Outer box size (mm)	1300×700×1630 (D depth×W width×H height)
2. UV lamp parameters	Lamp model	UVA-340 (315~400nm) This solution requires 8 lamps, and the standard configuration is UVA-340
	Lamp brand	UV-340

	Center distance between lamp tubes	70mm
	The distance between the test frame and the lamp tube	plate base frame test plate (adjustable up and down)
	Radiation intensity	not adjustable, the lamp output at 100% maximum power
3. Temperature & Humidity indicators	Temperature range	normal temperature +10～70℃ adjustable
	Humidity range	≥90%RH
	Temperature fluctuation	±3℃
	Temperature resolution	0.1℃
4. Black panel thermometer	Measuring range	45～80℃
	Tolerance	±3℃
5. Temperature control method:	PID self-tuning temperature control method	

FOCUS IN MATERIAL TEST

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