

ULTRITHANE 31
ARTIFICIAL ACCELERATED AGEING
TEST
EXPOSURE TO UV LIGHT AND WATER
ACCORDING TO ISO 1647-3

Date: 01/07/2025

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N° Test: TUV/185

TECHNICAL REPORT

PURPOSE

This standard specifies methods for exposing coatings to florescent UV lamps, heat, and water in equipment designed to reproduce the effects of weathering that occur when materials are exposed to direct sunlight filtered through window glass in their end-use environments.

SUPPORT

Q-Panel in aluminium

PRODUCT OR SYSTEM TESTED

Ultrithane 31 Semi Gloss White with 20% Ultrithane 31 Hardener PAF1223

CONDITIONING

20 days at room temperature (18-20°C)

WAVELENGTH USED

The method applied is Type 1A, using UVA-340 lamps with a wavelength of 340 nanometres and an irradiance of 0.83 W/m²/nm at 340 nm

CYCLE

4 HOURS UV EXPOSURE AT 60°C ±3

4 HOURS CONDENSATION AT 50°C±3

GLOSS VARIATION

HOURS	GLOSS
0	68,6
500	54,7
1000	53,6

CHROMATIC VARIATION

HOURS	ΔE	ΔL	Δa	Δb	ΔC
500	0,58	-0,29	0,13	0,49	0,45
1000	0,73	-0,70	-0,01	0,22	0,22