

Weathering Lab

We seek shelter as one of the three requirements for basic life. Your products aren't so lucky. They'll endure years of abuse from the sun, temperature, humidity, moisture and corrosion

Weathering testing involves applying all aspects of outdoor exposure including UltraViolet (UV) radiation, high temperature & humidity, thermal shock and corrosive atmosphere. Failure modes are wide and far-ranging, but include:

- fade, colour and gloss loss
- increased brittleness or loss of elasticity
- corrosion and chemical degradation

QUV Testing

Our Q-Lab QUV/SE and QUV/SPRAY testers can be used to test products to various standards including ASTM-G154. We maintain a supply of all three lamp types (UVA340, UVA351, UVB313) and calibrate our machines using Q-Lab calibration radiometers and black panel thermometers.

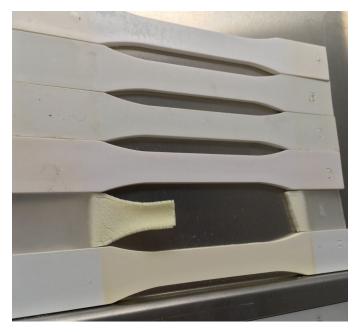
We can test any shape of product, using standard fixture-holders for flat panels (plastics, coatings, samples) and 3D trays for products and sections.

It's a great way to benchmark your new products against current designs, or conduct competitor analysis using scientific, reproducible methods.

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Xenon-Arc Testing

Unlike QUV chambers, the Q-Lab Q-SUN series exposes products to full spectrum sunlight, which includes UV, visible light and infrared wavelengths. The Q-SUN accurately controls black panel, air temperature, humidity and irradiance. These functions together create a reproducible environment that closely replicates exposure to real sunlight.

We have a range of Q-Lab light filters which allows us to reproduce outdoor, indoor, extended, and Military Standard solar spectrums. Common test standards include:

- MIL-STD-810
- ATSM-G155
- SAE J1960
- DEF-STAN-0035
- RTCA DO-160

Salt Spray Testing

Salt Spray testing determines a product's resistance to corrosion.

It is often conducted at the product level to provide quick feedback to the development team on coatings, enclosures and connectors.

Sometimes referred to as salt fog or corrosive atmosphere, salt spray testing encompasses a wide variety of test standards and methods, depending on product application. Common test standards include:

- MIL-STD-810
- ASTM-B117
- ISO-9227
- IEC60068-2-52
- DEF-STAN-0035

