



UKAS accredited

accelerated **weathering**  
& **lightfastness** testing

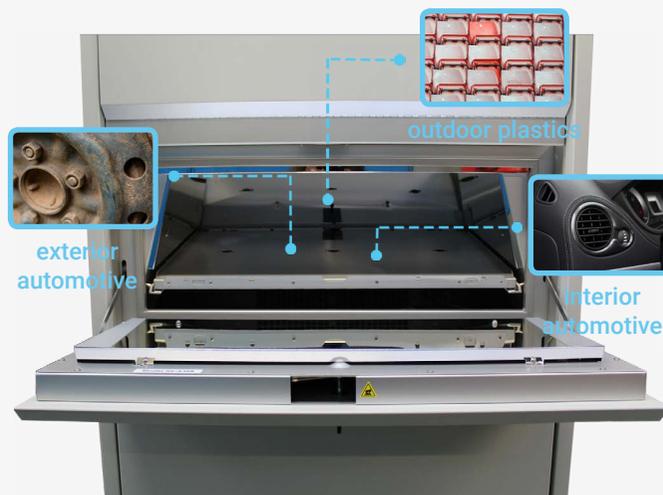
superior customer  
service guaranteed

impact solutions are the largest ISO 17025 accelerated weathering and lightfastness laboratory in the UK. We are fast becoming a leading independent UKAS accredited test centre for materials.

## what is **accelerated weathering & lightfastness**?

Accelerated weathering and light fastness testing is designed to test the durability of your product. Any product that sits outside, goes outside and or sits indoor but in direct sunlight is susceptible to the damaging effects of sunlight, UV and weather damage.

Sunlight and weather conditions can be extremely damaging to your products but without the accelerated process the only option to test the durability of your products is to sit them outside for the life of the product. Obviously for many reasons this is not practical for most businesses or manufacturers. This is where the accelerated weathering process comes into its own, using an accelerated weatherometer will speed up this process by around 8 times.



## why choose **impact solutions**?

**impact** are a one stop shop. Our team have over 120 years of combined experience and can advise you on what type of accelerated weathering testing you need and specifically for your product. No matter the question, product, or standard, contact us today for guidance. With our UKAS accreditation, we can test to anything that falls into the boundaries of our flexible scope. **impact** will always do their best to help you with all of your testing needs but if we are unable to help we will happily point you in the direction of someone who can.

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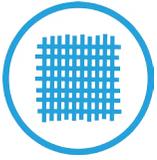


our collection of Q-Sun Xe-3  
xenon test chambers

## covering standards in different industry areas



automotive



textiles



aerospace



coatings

## how accelerated weathering & lightfastness works

Using UV exposure and environmental conditions, impact's weatherometers are able to replicate real weathering conditions.

### samples

Samples are placed within the weatherometer chamber where they undergo a program designed to simulate outdoor weathering conditions which the samples are likely to face in real life.

### exposure

The samples are tested against specific standards which determines the filters used to expose your products to different spectra of UV light. Various degrees of moisture, humidity and sprays are used to mimic environmental factors which may have an effect on the lifetime performance of the product.

### evaluation

At periodic intervals, tests including haze/transmission, colour analysis, delamination and tensile can be used to evaluate a sample's durability during the accelerated weathering testing program.

## accelerated weathering & lightfastness standards

impact have a growing collection of new Q-Sun Xe-3 weatherometers with full spray capabilities. These accelerated weathering weatherometers allow us to offer a variety of test methods and standards throughout a number of industries including, **ISO, SAEJ, ASTM, DIN, EN, PV, Ford, VW, Nissan** and many more.

All these standards are designed to test your products to the conditions they would be exposed to, either outdoors or indoor in direct sunlight through window glass.

### ISO 4892-2

Exposing plastic samples to xenon arc light with moisture, humidity, temperature and if required rain, to reproduce weather and light effects on the specified component.

### ISO 105 B02 ISO 105 B04 ISO 105 B06

Textiles standards ISO 105 B02/B04/B06 offer options to test textile products to various cycles including indoor and outdoor options.

### SAEJ 2527 SAEJ 2412

SAEJ 2527 (outdoor) and SAEJ 2412 (indoor), the automotive standards use a xenon arc lamp and offer heat, light, dark periods, moisture, humidity and rain (Outdoor only).



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