

Service life investigations of plastic and rubber materials and products



Expensive installations require a high reliability level. The costs for the repair or exchange of a critical polymer part can be much higher than the initial costs of the polymer part itself. In that case it is very profitable for you to know the expected service life of the specific polymer product beforehand.

You are...

Are you a designer, manufacturer, asset manager or user of plastics and rubber materials and products? And would you like to know the expected service life of the specific polymer product beforehand? Then we can help you with an independent service life investigation of plastic and rubber products. The service life of rubber and plastic products is often an important parameter. The residual service life of existing installations, to function for many years, is also an important issue for the asset and maintenance departments of companies. Kiwa is often requested to investigate and evaluate if polymer parts or products can function during a longer period. In many cases the exchange of the polymer product was not necessary, even beyond the initial design life or guarantee period. A clear advantage for our clients!

Tests related to service life investigations:

- Rubber, investigation and prediction of service life
- Plastics, thermal stability
- Oxidation induction time (OIT) and other DSC based tests
- Resistance to internal hydrostatic pressure
- Resistance to slow crack growth (SCG)
- Resistance to rapid crack propagation (RCP)
- Oxygen permeability

Kiwa N.V.
info@kiwa.nl
+31 (0)88 998 44 00



- Effects of heating.

But also for designers, manufacturers, asset managers and users of plastics and rubber materials and products like:

- plastic piping systems
- rubber sealing products
- rubber engineering products
- geosynthetics

More information:

In all cases where service life investigations bring the answers you are looking for.

Please feel free to contact us.

About Kiwa

Kiwa has specialized business units that focus on specific market segments, in the Netherlands and internationally. We offer specialist services in areas such as energy and water, fire safety and security, infrastructure, roof and facade advice, sports facilities and training. You can contact these business units for testing, inspection, certification, training and consultancy tailored to your market segment.

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