

Failure Analysis

The broad technical capabilities of Exova and the technical depth of the staff allow us to offer failure analysis services across a variety of disciplines. We can work with you to understand why products, components and/or processes are failing to meet your needs. Inter-disciplinary teams can be pulled together as appropriate.

Our failure analysis capabilities can extend to forensic work including expert witnessing in support of litigation.

Building & Construction Materials

As problem-solvers, we offer technical expertise to tackle failure analysis in areas such as glass stains, sealed unit failure, air and water leakage assessment, as well as expert witness services and analysis reports.

We provide technical support to identify the cause of mechanism(s) of the failure. Our services include:

- On-site failure investigations
- Full lab - chemical and physical analysis
- Physical testing

Metals, Plastics & Polymers

Causes of failure are determined using state-of-the-art analytical and mechanical procedures. A combination of analysis and physical testing locates problems and provides recommendations for solutions. Failure analysis at Exova frequently involves the following steps:

- Complete analysis of the failed material
- A thorough examination of the failed part
- Tests to simulate environmental and physical stresses that may have played a role in the failure
- Selection and testing alternate products and/or procedures that will significantly improve performance
- On-site evaluation and consulting service

Textiles

The Textile and Clothing Technology group at Exova has been supporting raw materials suppliers and manufacturers through end users of textile products for over 70 years. Supported by a broad set of testing capabilities, we carry out investigations into the cause of damage, discoloration, staining, uneven coloration, irregularities in processing, etc. in textiles, clothing and carpet products. The studies may include literature review, visual and microscopic examination as well as physical and chemical instrumental analysis. Failure analysis can also extend to development work aimed at improving products or processes.

**Testing
Advising
Assuring**

1.866.263.9268
sales@exova.com
www.exova.com