



Capability Statement

www.excelplas.com

**Independent
Materials Testing**

ExcelPlas is the leading provider of polymeric materials testing and analysis services.

Established in 1994 our experienced team utilizes cutting-edge technology to provide meaningful insights into your materials.



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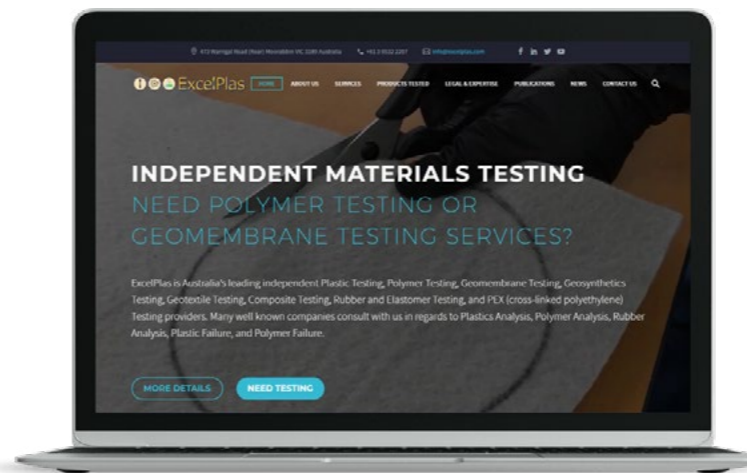
Australia's foremost independent investigative laboratory.

Our Vision & Values

ExcelPlas provides trusted independent testing services for a wide range of materials, including plastics and coatings, to help ensure the Australian Defence Industry is supplied with high-quality equipment that will remain fit for purpose for years to come.

Independent testing is crucial in avoiding unexpected and unnecessary expenditures on material repair or replacement, saving the Australian Defence Industry millions of dollars. ExcelPlas specializes in independent testing and quality assurance, helping you understand the performance and lifecycle of your equipment and avoiding poor materials selection.

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Material Performance Clarified



Why Choose us?

Independent testing is vital to ensure that suppliers adhere to strict quality standards and maintain batch-to-batch consistency. In this way, ExcelPlas can guarantee the integrity of production and quality control data that is provided to the Australian Defence Industry.

With 12,500+ jobs under our belt, we have demonstrated our ability to accommodate diverse testing and investigation requirements. ExcelPlas has provided its expertise in a number of nine-figure, international, failure analysis investigations.

Ensure the success of your equipment with ExcelPlas and our internationally recognised expertise in the materials and coatings space.

Coatings Integrity Examination CIE

Coatings are an integral part of ensuring the longevity of assets utilised by the Australian Defence Industry. The neglect or oversight of coatings can significantly compromise the effectiveness of key equipment, halting operations and incurring considerable costs.

To understand the lifecycle of a coating is it necessary to regularly assess and monitor the coatings performance over its lifetime in service. We perform numerous tests which provide insight into the condition of a coating, enabling an effective preventative maintenance schedule, and pre-empting critical failures.



Raw data alone can be difficult to interpret and act upon effectively. By providing meaningful analysis and interpretation of your coatings data, we can help you make informed decisions and take the correct actions to protect your assets.

Our insights can reveal trends, identify potential issues, and suggest specific strategies for improving the performance and longevity of your coatings. With our expert guidance, you can achieve better outcomes and more efficient maintenance for your coatings.

High profile coatings failures investigated by ExcelPlas »

Airbus

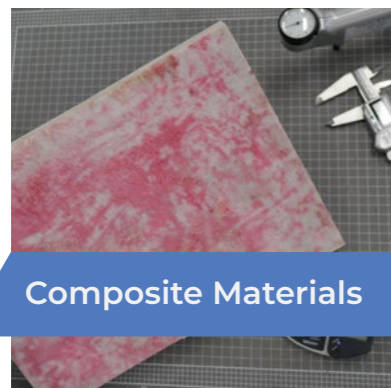
HMAS Canberra

Megascale LNG infrastructure in WA and NT

HMAS Cerberus

General Capabilities

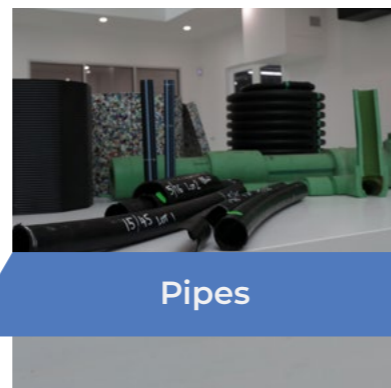
Our 30 years' experience has enabled us to continuously refine our processes and has established us as a leading laboratory for all materials testing and analysis. Our expertise enables us to accurately characterize and determine the physical and chemical characteristics of a wide range of polymers. Some of the polymers we specialize in include, but are not limited to:



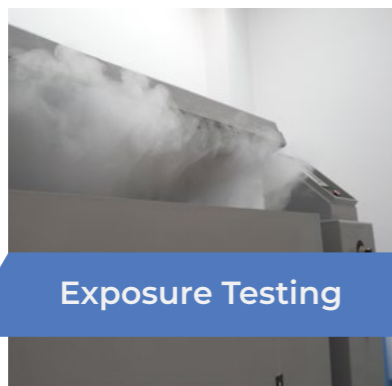
Composite Materials



Rubbers & Elastomers



Pipes



Exposure Testing



Geosynthetics



In order for equipment to survive and perform time and time again in-field, the polymers involved in their construction must meet and exceed the specifications given by the supplier. ExcelPlas has a range of routine testing which we perform day-in and day-out in order to verify that polymers are behaving as they should. General properties which we can characterise include, but are not limited to:



Thermal Stability



Oxidative Degradation



Physical Qualities
eg. Tensile strength, hardness



UV Stability

What Working With Us Looks Like



Our team of qualified technicians & support staff are ready to provide you with **highest quality services** to ensure your **success**.

The ExcelPlas facility houses a wide range of testing equipment allowing us to accommodate your needs. We are continuously looking to expand further into the Defence space with new equipment supporting even larger projects!



1. Initial Consultation

2. Sample Evaluation



3. Testing Phase

4. Reporting and Interpretation of Results

5. Findings based recommendations

Australia's leading independent testing provider



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