

aps technology innovation

Established in 1986, APS is an **award winning technology innovator** that combines product design and development with high quality, precision engineering, testing and manufacturing expertise.

APS Plastics conducts **product testing** in accordance with international standards, including ISO, ASTM, DIN and others. The company has extensive experience in developing test methodologies to meet the needs of clients. Testing is conducted by qualified engineering personnel using NATA calibrated equipment. Reports for all test procedures, suitable for product technical files, are provided on request.

Accelerated Aging

Accelerated aging tests can be conducted to ensure the efficacy of products after long term storage and to provide experimental data in support of any claims. Using protocols based on the Arrhenius model, APS can provide results within a requisite degree of accuracy. Pre-aging conditions may include sterilisation, followed by both wet and dry aging.

Mechanical Testing

Dynamic product verification testing is conducted using a universal testing machine, with customised solutions for particular product needs. A comprehensive range of tests can be conducted on single components or finished product, including compressive, tensile, flexural and peel testing. Other available tests include impact and hardness testing.

Accelerated Fatigue Testing

To validate the performance of your product as specified over its life-cycle, APS conduct accelerated cyclic testing to simulate real world conditions. The risks of failure in the field and product recalls can be minimised.

Metrology – Dimensional

APS supply metrology services to ensure that the components used in client products fall within their dimensional specifications (Tool Verification). APS is able to estimate the percentage of components that fall within the required specification limits (Process Capability) for a specified sampling rate and acceptance quality level (AQL).

Metrology – Process

APS also supply metrology services to ensure that processes used to manufacture components / products fall within the required parameters. APS can analyse in-tool pressures for plastics and related production processes including contact / non-contact temperature measurement, precision weight measurement and moisture content.

Custom Services

Where components cannot be measured or quantified using conventional techniques or equipment, APS develop customised fixtures and testing methods tailored to client specific needs.

testing & metrology





Specialised Personnel

Trained and experienced testing personnel form an integral part of the APS team, and work closely with product designers and engineers to ensure fully optimised product and process results for APS clients.



Precision Equipment

Equipment used by APS testing is NATA calibrated and maintained in accordance with the requirements of the ISO 9001:2000 international quality standards.



Projects

APS test a range of medical devices and industrial products.

Examples of products include:

- Safety syringes
- Ear pressure devices
- Plastic building panels
- Stadium seating components
- Plastic packaging and containers



Contact Details

For more information please visit www.apsplastics.com.au or contact our office to request a brochure.

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