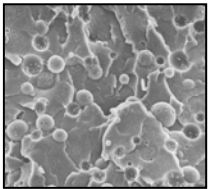


Mechanical Properties of Composites

High performance materials tend to be more demanding in their service duty needing expert understanding

Why you can rely on Intertek MSG

A strong track record



We have been active in the development and problem-solving of issues for composite and advanced materials for over 20 years. Our mechanical property experts bring the added benefit of complementary techniques from our teams in, thermal properties, physical and chemical imaging and chemical characterisation. This enables us to deliver a comprehensive approach to material research, component testing and qualification, and problem resolution.

Innovative solutions for innovative products

We are proud of our unique abilities to go beyond routine or standard tests to provide bespoke methods that are more resolving, more exacting for your needs. We can design and build novel measurement apparatus specifically for your application.

The confidence you need in your products performance and safety.

We have a range of measurement strategies and have developed tests that extend the accuracy, applicability or understanding above conventional tests or standards.

Trusted Independent Business

We understand the need for swift reliable analysis and solutions if products fail in service or specification. We have been accredited by UKAS (ISO 17025) for 15 years.



Composite properties

- Fatigue
- Long term testing
- Bonding trials
- Thermal shock
- Wear
- Friction
- Creep and creep rupture
- Scratch resistance
- Abrasion
- High speed impact testing at variable temperature.
- Interfacial properties (inter, intra)
- Intrinsic properties vs. standards
- Engineering design data

Fibre/particle properties

- Particle sizing
- Surface roughness
- Strength
- Statistical confidence
- Surface reactivity

Matrix properties

- Intrinsic property screens (modulus, yield, fracture mechanics)
- Environmental creep rupture

Problem-solving

- Understanding unexpected fracture modes
- Identifying dispersion issues
- Fibre bonding properties
- Damage assessment

If there is any interest in the above capabilities, please address your enquiries to Drs Allan Stewart or Isla Mathieson by the following means.

Telephone: +44 (0)1642 435788 or
Email: msgenquiry@intertek.com

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Characterised by Expertise

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