

Composite Materials

Composites solve problems, raise performance levels and enable the development of new innovations.

Light Weight

Composites are light in weight, compared to most woods and metals. Their lightness is important in automobiles and aircraft, for example, where less weight means better fuel efficiency.

Strength

Relative to Weight

Some materials are very strong and heavy, such as steel. Other materials can be strong and light, such as bamboo poles. Composites materials can be designed to be both strong and light.

Strength

Composites can be designed to be far stronger than aluminum or steel. Metals are equally strong in all directions. But composites can be engineered and designed to be strong in a specific direction.

Design Flexibility

Composites can be molded into complicated shapes more easily than other materials.

As composite and non-metallic materials become prevalent in industry applications and more complex in structure, the need for accurate and comprehensive testing is vital in product development.

Westmoreland Mechanical Testing & Research is equipped to test thermoset and thermoplastic composites, laminates, fiber reinforced composites, sandwich core materials, resins, films, adhesives and honeycomb materials. We have the ability and the capacity to perform customized tests of your composite materials based on your specific project needs.



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