Composites Test Center
located in Pittsfield, MA

Our composite test experts provide leadership in ASTM, ISO, Nadcap committees and have 25 years experience in materials testing (thermoset and thermoplastic composites, laminates, fiber reinforced composites, core materials, resins, films and adhesives). At Intertek, our experts have the ability to produce accurate and fast results using state-of-the-art test equipment. The services offered by our test center are independent and confidential.

We are leaders in data generation, and specialize in Material Characterization, Quality Control, and Problem solving.
Independent, Accredited Data Generation for industry material submissions

- A2LA (IEC/ISO 17025:05) Accreditation for composite material submission for automotive Part Production Approval Process (PPAP), wind energy assessments and other industry requirements
- Nadcap AC7122/1 non-metallic materials, class A composite materials to support aerospace material submissions

Material Characterization

- Specializing in Quick Turn of Mechanical Evaluations including tension and compression, poisson’s ratio, bearing bypass, damage resistance, compression after impact, combined compression loading (CLC), multiaxial impact, pendulum impact, v-notch shear / rail shear, lap shear of adhesively bonded joints, short beam shear, floating roller peel, climbing drum peel and more.
  - State-of-the-art equipment
    - Up to 250kN load cell capacity
    - Data Precision through reduced bending effects utilizing Align Pro to meet NADCAP accuracy requirements for tension and Hydraulic Composite Compression Fixture (HCCF) for compression
    - High Heat Extensometers and 8 Channel Strain Gage measurement for intricate bearing bypass assessments, poisson’s ratio and more
    - Elevated / Reduced Temperature Chamber Testing
- Environmental Simulation / Conditioning at 23°C / 50%RH and/or moisture conditioning per ASTM D5229 to simulate intensive end-use environments. Exposure to chemical, electrical, flammability and more.
- Analytical Services: DMA, TMA, TGA, DSC, IV, Karl Fischer and more provided in the Intertek global network.

QC/Incoming Raw Material Checks (prepreg, layups, resin systems):

- Evaluate adhesives, films and resins used in the production of laminated materials or resin and fiber for thermoplastic injection molding composites.

Problem solving:

- Intertek generates valuable data for delaminating evaluations, monitoring wetout, optimizing cure, and reducing cycle times.

The Intertek Advantage

Intertek is the leading quality solutions provider to industries worldwide. From auditing and inspection, to testing, training, advisory, quality assurance and certification, Intertek adds value to customers’ products, processes and assets. With a network of more than 1,000 laboratories and offices and over 35,000 people in more than 100 countries, Intertek supports companies’ success in a global marketplace. Intertek helps its customers to meet end users’ expectations for safety, sustainability, performance, integrity and desirability in virtually any market worldwide.

Common Composites Tests


Flexural: Matrix Composites ASTM D7264, Four-Point Bending, ASTM D6272, Plastics ASTM D790, Core Shear ASTM C393


Impact: Damage Resistance ASTM D7136, Multiaxial Impact ASTM D3763

Fracture Toughness: Mixed Mode ASTM D6671, Mode I ASTM D5528


Thermal: DSC ASTM D3418, DMA ASTM D4065, Flexural DMA ASTM D7028, TGA ASTM E1131, TMA ASTM E831

And More...