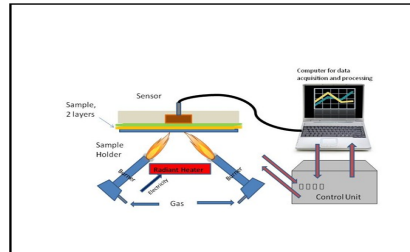


AUBURN UNIVERSITY POLYMER AND FIBER ENGINEERING DEPARTMENT PHYSICAL TESTING CAPABILITIES



We offer the measurement and evaluation of the following properties for polymers, textiles and composites:

- Dimensional properties: AFIS, HVI, VIBROSCOPE, Microscope, Micrometer
- Strength: INSTRON Universal Strength Testing Machines, INSTRON Impact Tester, TENSORAPID, FAFEGRAPH, ELMENDORF
- Stiffness: bending length and circular bending
- Abrasion Resistance: TABER Rotary Abrader, SCHIEFER Uniform, Universal FLEX WEAR Tester, DURANT Carpet Abrader, ZWEIGLE abrasion tester
- Fatigue: M.I.T. Folding Endurance Tester
- Thermal Protective Performance : TPP tester
- Thermal Conductivity: ALAMBETA Thermal Conductivity Tester
- Thermal Shrinkage: DYNAFIL-M.
- Thermal Analysis (DSC and TGA)
- Dynamic Mechanical Analysis (DMA)
- Rheometer
- Material Identification: FTIR
- Air/Gas permeability: FRAZIER, GURLEY, and CSI
- Flammability tests: Vertical and 45°
- Many of ASTM and AATCC standard tests for Textiles and Polymers, including fiber identification, fiber content, twist, uniformity, pilling, colorfastness, ...



We can customize tests to suits your needs as well as develop new tests or procedures to measure certain performance and behavioral for advanced materials.



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