




CERL

Composites Engineering
and Research Laboratory

Located at :
Brunswick Landing
Brunswick, ME USA 04011
(207) 653-0178



C.E.R.L.
COMPOSITES ENGINEERING RESEARCH LABORATORY

POLYMER AND COMPOSITES CHARACTERIZATION – ENGINEERING PROBLEM SOLVING

PROTOTYPE MANUFACTURING

The Composites Engineering and Research Laboratory provides the highest standard in material characterization for polymers and composite systems. We offer product and process development for composites companies to address their engineering and applied research needs to allow them to be more productive and competitive in the global composites marketplace. Specialized educational training also available.



Engineering Problem Solving and Educational Training

Analytical and Testing Capabilities

- TA Instruments Q800 Dynamic Mechanical Analyzer (DMA)
 - TA Instruments Q400 Thermo-Mechanical Analyzer (TMA)
 - TA Instruments Q500 Thermogravimetric Analyzer (TGA)
 - TA Instruments Q2000 Differential Scanning Calorimeter (DSC)
 - TA Instruments AR2000EX Parallel Plate Rheometer
 - TA Instruments AR 2000 Parallel Plate Rheometer
 - Keyence VR3200 Macroscopic for non-contact 3D Surface Characterization
 - Shimadzu AG-X 300 kN Frame / 100kN Load Cell Universal Mechanical Tester
 - Nicolet iS10 Fourier Transform Infrared Spectrometer (FTIR)
 - FLIR Advanced Thermography for Non-destructive Defect Detection
 - LECO M-400-H2 Micro-Hardness Tester
 - Blue M High Temperature Clean Room Oven
 - Forcipol / Forcimat Automated Grinder/Polisher for Cross Section Analysis
 - Ambient and Elevated Temperature Vacuum Infusion Tables for Manufacturing
 - Multiple high powered and Digital Microscopy
 - Reme-Hart Goniometer for Surface Tension Analysis
- Coming Soon
Shimadzu GC/MS Headspace Analyzer



Shimadzu AG-X 300 kN Mechanical Testing