



Cambridge Polymer Group

Testing Capabilities



Chemistry

FTIR/ATR/Reflectance/Micro
Extractables/Leachables
Electron spin resonance
Energy dispersive spectroscopy
Contact angle
QTOF/GC/LC/HPLC/Mass Spec
Molecular weight (GPC, Viscometry)
pH
NMR
ESCA, Auger, TOF-SIMS
Inductively coupled plasma

Morphology

Scanning electron microscopy (wet/high vac)
Transmission electron microscopy
Optical microscopy
Density
Birefringence
X-ray analysis
Swell ratio analysis
Particle size distribution

Rheology/Tribology

Shear/Oscillatory/Creep
Extensional
Melt flow index
Coefficient of friction

Thermal

Differential scanning calorimetry
Thermal gravimetric analysis with FTIR

Mechanical

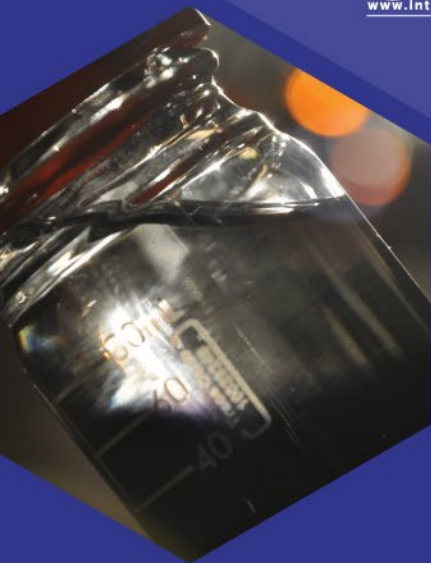
Dynamic mechanical analysis
Tension/Compression
J-Integral
Creep
Fatigue crack propagation
Environmental stress cracking
Hardness
Small punch
Impact

Miscellaneous

Accelerated aging
Manufacturing residue analysis
Oxygen content
Oxidation induction time
Radiopacity

This list is an abbreviated list of our capabilities and is subject to change as we increase our capabilities. Please contact us regarding testing that may not be listed here.

ANALYTICAL TESTING
BIOMEDICAL MATERIALS
MATERIALS CONSULTATION
RESEARCH & DEVELOPMENT



Cambridge Polymer Group, Inc. is a contract research laboratory specializing in materials. We partner with our clients to solve problems utilizing our multi-disciplinary research team and full service laboratory.

We work with clients throughout the product life cycle to:

- Develop new materials
- Design prototypes for proof-of-concept studies
- Create and execute experimental design
- Validate and verify manufacturing processes
- Perform root-cause analysis in product failures

Cambridge Polymer Group, Inc. was founded in 1996 to provide a cost-effective resource for testing, research and development to clients who need periodic access to Ph.D.-level scientists and their support structure. We have developed a host of testing methods and materials for our clients, which number more than 600.

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ISO 17025 Accredited & ISO 9001:2015 Certified

