



KPRC RESEARCH SERVICES

The KPRC is housed in the Tyler Research Center on the campus of Pittsburg State University. This 22,000 sq. ft. state-of-the-art building includes chemistry laboratories, testing facilities, and space for true bench-to-market product development. Our scientists have over 100 years of combined experience in polymer chemistry and were recipients of the prestigious Presidential Green Chemistry Challenge award in 2007. Please contact us with your research or testing needs.

Kansas Polymer Research Center

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KANSAS POLYMER RESEARCH CENTER

Analytical Testing Services



Pittsburg State
University

Kansas Polymer Research Center

The Kansas Polymer Research Center at Pittsburg State University specializes in polymer and materials research, development, and testing.

Over the course of 15 years conducting research in the area of bio-based polymeric materials, we have acquired extensive equipment and knowledge in the arena of analytical testing and method development. KPRC offers a wide range of analytical testing services at competitive prices. Although much of our testing resources rely heavily on the properties of polymers, KPRC is equipped to offer a very wide range and variety of materials testing services. A list of instrumentation and testing capabilities are provided below.

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CHROMATOGRAPHY

GC/FID and GC/MS
HPLC/UV-VIS/RI/ELSD
GPC/RI or with RI/UV-VIS/Light
Scattering

SPECTROSCOPY

NMR
FT-IR, NIR
UV/VIS
Powder X-Ray diffraction

THERMAL ANALYSIS

Differential Scanning Calorimeter
(DSC)
Dynamic Mechanical Analysis (DMA)
Thermal Gravimetric Analysis (TGA)
Thermal Mechanical Analysis (TMA)
Dielectric Analysis (DEA)

MECHANICAL / PHYSICAL PROPERTIES

Ultra Pycnometer (open cell
content)
Viscometer/Rheometer
Hardness – Shore A or D
Melt Flow Index (ASTM D1238)
Tensile Properties (ASTM D638)
Flexural Properties (ASTM D790)
IZOD, notched/un-notched
(ASTM 256A/4812)
Thermal Conductivity
Impact
Flammability
Rebound Resilience
Abrasion Resistance

WET CHEMISTRY CHARACTERIZATION

A wide variety of wet chemistry analyses are also available utilizing our automated Titrino titrators. Tests such as iodine value, OH number, Karl Fisher titration, and acid value are routine.

ENVIRONMENTAL TESTING

Please contact us about our environmental testing capabilities.