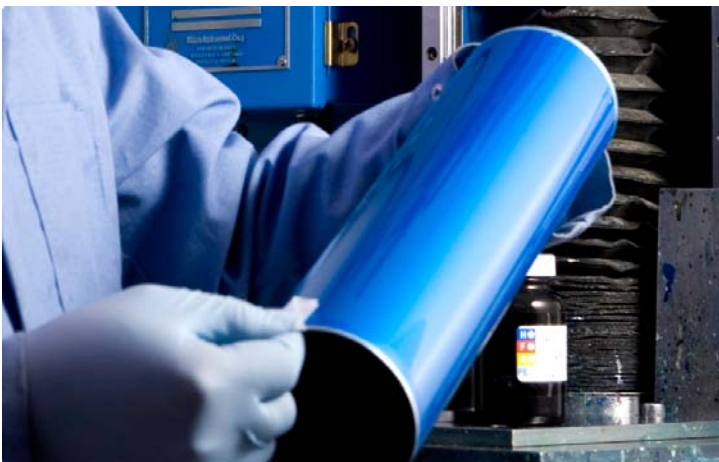


Performance Testing of Materials

Meeting Requirements for the Real World

The Xerox Research Centre of Canada creates testing and characterization protocols to aid the development of new products.



What We Offer

Performance testing that connects characterization of basic material properties with integrated device and subsystem functional requirements to assist the development of new products.

Give us a challenge...

Material Characterization

- Microscopy
- Spectroscopy
- Thermal, mechanical and rheological analysis
- Evaluation of surfaces
- Measurement of electrical and photoelectric properties
- Particle size determination

Performance Testing of Materials

- Custom fabrication of integrated test fixtures for device and subsystem integration
- Connecting property and performance to develop new products

Device and Subsystem Integration

- Fabrication of optoelectronic devices
- Thermal response of polymer systems
- Adhesion and release performance
- Laboratory-scale coating capability
- Surface analysis
- Film robustness

Building New Products Through Real World Testing

New Materials & Product Design

Material properties and product performance

- Custom design of automated instrumented devices and subsystems to evaluate material performance under real world conditions
- Application of device, subsystem and system hardware to develop new material design rules
- Evaluation of specialized materials in prototype devices and subsystems

Analytical Tools and Services

Evaluation and measurement of material properties including

- Electron microscopy (TEM, SEM)
- Energy Dispersive Spectroscopy
- Optical photomicrography
- Rheological analysis
- Thermal analysis: DSC, TGA
- Spectroscopy (NMR, FTIR)
- Static charge decay and resistivity
- Dielectric property measurement
- Powder and contact mechanics
- Mechanical testing (Instron, DMA)
- Non-contact surface profilometry
- Dynamic contact angle analysis
- Colloidal particle size measurement
- Evaluation of paper properties

Systems and Functional Testing

- Organic electronic and optoelectronic devices
- Organic semiconductor charge transport properties
- Rheology, flow, mechanics and movement of colloidal particles in external fields and applied forces
- Evaluation, measurement and time-dependent empirical modeling of thermal, rheological and mechanical polymer response to heat and pressure
- Electro-photographic and piezo inkjet marking material fixtures
- Image analysis including registration, graininess, mottle, and line quality
- Scratch, gouge, rub, wear, and light exposure
- Component coating capability including rod, spin, dip, knife-on-roll, blade-metered flow and powder methods
- Our projects are administered using the Lean Six Sigma methodology, ensuring that you will acquire rigorous, accurate and fast results.



Engage us:

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