Polymers, Composites & Coatings
Custom Material Development

The Xerox Research Centre of Canada (XRCC) has a long history of developing novel polymeric materials, composites, films, and high performance coatings. We have the expertise and experience to develop the materials you need to deliver your goals.

What We Offer
If your application requires a specialized or innovative polymer, composite, or coating our team can help you develop custom materials and formulations that achieve your objectives.

Give us a challenge.

Composites and Coatings
- Formulation development
- Dispersion
- Composites
- Particles and powders
- Coatings and films
- Compounding and extrusion
- Solution-phase coating
- Thickness and adhesion optimization

Process Technologies
- Emulsion / suspension / bulk / solution / interfacial
- Batch / semi-batch / continuous
- Extrusion / melt mixing
- Microreactors
- Encapsulation
- Spray / flow / gap / spin / dip coating

Material Technologies
- Latexes
- Bio-based polymers
- Adhesives
- Capsules
- Fluorinated polymers
- Conductive polymers
- Photovoltaic polymers
- Functional coatings
- Nanocomposites
- Chemically resistant coatings
Polymer Science and Engineering at XRCC

XRCC Success Stories
- Invention of nitroxide-mediated polymerization
- Reactive extrusion with controlled crosslinking and functionalization
- Microstructured polymer particles with controlled particle growth and properties
- Nano to micron size polymer particles

Our Commitment to You
We can help you develop the custom coatings and materials that you need for your applications. Our projects are administered using the Lean Six Sigma methodology, ensuring you receive the right data at the right time. We will be your partner in bridging the gap from idea to product.

Resources
- Expertise of Polymer Chemists, Chemical Engineers, and Technologists
- Lab and Pilot Plant facilities from gram to kilogram scale
- Fully equipped analytical laboratories with access to key polymer characterization techniques
- Mechanical properties evaluation equipment and expertise
- Model and machine shops for custom equipment and device fabrication

Engage Us
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