

TECHNOLOGY

Polyethylene Customer Technical Services

PURPOSE

NOVA Chemicals' knowledgeable and creative technical services staff carries out a number of important services, which collectively aim to maximize value for our customers when using our resins. Our team seeks to give customers the competitive edge by helping them use our polyethylene resins in the most effective manner to produce low-cost, high-quality end products. As well, we utilize our capabilities to suggest innovative ways to create superior products for high value polyethylene markets.



PEOPLE

Our experienced technical resources are deployed in developing improved products and in conducting applied studies for, or jointly with, customers. We work with customers to optimize their processes and end product properties through:

- Joint exploration studies
- Optimization studies
- Regulatory qualifications
- Product development
- Structure development
- Compositional and structural analysis of end products



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We also provide information and guidance in areas of:

- Resin selection
- Processing
- End-use product knowledge
- Additive types and levels
- Chemical compatibility
- Training (process and polyethylene product)
- Regulatory approvals

Through strategically located technical service specialists, we work directly with customers at their sites and at our Technical Centre.

LABORATORY AND TESTING FACILITIES

NOVA Chemicals' Testing Services laboratories in Calgary have a broad range of capabilities to assist our customers in identifying innovative technical solutions for their business. The laboratories are fully equipped and staffed to provide timely, cost-effective, accurate, and reliable testing.

Laboratories at our Technical Centre are approved by various regulatory bodies to generate the appropriate data required for certification, thereby reducing the time it takes to qualify and commercialize new products.

Our testing capabilities include:


- Molecular and compositional characterization
- Morphological and high-resolution microscopic characterization
- Rheological characterization



- Catalyst analysis
- Additive characterization
- Thermal analysis
- Monomer/comonomer characterization
- Physical properties determination

Our applications capabilities include a variety of plastics processing equipment ranging from laboratory to commercial-scale for product quality and performance evaluation. We are able to simulate, troubleshoot, and optimize our customers' operating conditions for the following processes:

- Blown or cast film, mono-layer or co-extruded
- Injection molding
- Rotational molding
- Blow molding
- Pipe and tubing
- Compounding
- Sheet extrusion

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