

TECHNOLOGY

Styrenics

PURPOSE

The Styrenics Technology team oversees a broad range of styrene-based commodity and performance polymers, which includes numerous moldable foam resins as well as crystal, impact, and various other solid styrenic copolymers. Our team leverages its polymer and process knowledge to successfully develop new product solutions and tailor existing products to meet ever-changing customer and market needs by:

- Creating new products to meet identified customer and manufacturing needs
- Introducing products to a diverse customer base
- Designing and improving manufacturing processes to deliver value
- Monitoring industry and regulatory developments to ensure product compliance
- Collaborating with external resources to maximize our product delivery capabilities
- Maintaining intellectual property positions for products, processes, and applications



World-class facilities and highly skilled team members provide the foundation for NOVA Chemicals' efforts to lead the industry in styrenics technology innovation. Our charter is to maximize value to NOVA Chemicals' stakeholders, maintain a competitive advantage within the industry, and provide solutions to the numerous styrenic polymers markets.

PEOPLE

The Styrenics Technology team is comprised of highly qualified engineers, scientists, and technologists. Our team members draw upon formal education and practical experience to deliver product solutions that are timely, cost-effective, and market focused. Creativity and ingenuity are highly emphasized as cross-functional teams pursue development of new products. Not limiting ourselves to traditional research and development methodologies, our team actively explores breakout technologies in pursuit of new leading-edge styrenic polymers.



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ACTIVITIES

Our team is aligned with the Styrenics businesses to concentrate our efforts on a number of strategic endeavors. Intellectual property reviews, scoping studies, bench-scale and pilot-scale experimentation, and commercial scale-up all contribute to the identification and development of high-value styrenic polymers. Idea generation is actively promoted and qualifying initiatives enter the project "pipeline". Multi-disciplinary teams collaborate to efficiently drive these programs through to successful completion. Whether enhancing the attributes of an existing product or formulating a revolutionary new resin, the Styrenics Technology team employs effective project management methodologies to maximize value while maintaining costs.

LAB AND TESTING FACILITIES

NOVA Chemicals' Testing Services labs in Calgary have a broad range of capabilities to provide support solutions to our customers. The labs are modern, state of the art and are staffed to provide timely, cost-effective, and accurate testing support.




Testing capabilities include:

- Molecular characterization
- Morphological characterization
- Rheological characterization
- Catalyst Analysis and characterization
- Environmental testing
- Additive characterization
- Thermal characterization
- Monomer/Comonomer characterization
- Microscopic characterization
- Fundamental physical properties of resin
- Finished product physical properties

Applications Capabilities include:

- Semi-commercial and lab-scale plastics processing equipment for evaluating product quality and performance and simulating customer process conditions.
- Processing capabilities include injection molding, blow molding, and compounding.

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