

**CERESTECH INTRODUCES NEW FAMILY OF
THERMOPLASTIC STARCH BLEND RESINS**
Low Carbon Footprint – High Performance Plastics Offer Converters New Options

MONTRÉAL (CANADA) – Cerestech, Inc., has announced the commercial introduction of several branded Thermoplastic Starch (TPS) Blends, called **Cereloy™**, that deliver cost-effective, high property retention film and injection molded products with a substantially reduced Carbon Footprint relative to resins such as polyethylene, polypropylene, biodegradable polyester or polylactic acid (PLA).

The company is a technology development and licensing spin-off from the École Polytechnique of Montréal. Cerestech's new line of **Cereloy™** blends offer an optimal mix of cost, performance and sustainability, and are an ideal complement to current and future converter offerings. Large-scale orders and sample sizes are available to converters worldwide and end-use products featuring **Cereloy™** are already appearing on store shelves.

Cerestech's **Cereloy™** blend is based on a unique patent platform developed at the École Polytechnique of Montréal, the University of Montréal's Engineering School. Using starches derived from corn, wheat and tapioca, the technology allows for a seamless substitution of traditional plastics from fossil-fuel sources with TPS in large volume applications such as films, bags and injection molded products.

Cereloy™ blends offer converters significant advantages based on the technology's innate ability to be tailored to meet specific performance requirements and resin grades. Products made in partnerships with leading film and injection molding companies have incorporated up to 30 percent TPS while maintaining, and in some cases exceeding, mechanical properties of equivalent reference products made from polyethylene, polypropylene and compostable ASTM 6400 compliant resins.

"Never before have we seen products delivering such high performance while offering a significant reduction in Green House Gas Emissions (GHG)," said Dr. Basil Favis, Cerestech founder and chief scientific officer. "The production of pure thermoplastic starch using our approach emits up to 90 percent less GHG than polyethylene and also has significant advantages in terms of non-renewable energy consumption when compared to other plastics. **Cereloy™** offers an effective solution to plastics processors seeking to bring new, cost effective, high performance sustainable products to market."

The high performance of the TPS Blends in plastic products has been achieved after several years of fundamental and applied research and development activities in partnership with commercial processors. Several new **Cereloy™** resin grades are currently being launched for applications in film and injection molded products. The first commercial product is a blend from linear low-density polyethylene (LLDPE) and TPS: a new sustainable can liner being introduced by Pitt Plastics, Inc.

Dr. Graham Chapman, president of Cerestech, believes that the time has come to offer consumers a better environmental solution. "Our **Cereloy™** TPS blend can be used in a wide range of applications, from compostable, biodegradable bags, to any film, bags or products processed on conventional equipment. The ease of processing, the high property retention and attractive cost will make our TPS Blends a 'must-have' for leading edge plastics processors," believes Dr. Chapman.

The **Cereloy™** blends for film (LDPE, LLDPE,) and injection molding (HDPE, polypropylene) are now commercially available from U.S.-based Innovative Compounding Solutions LLC, a newly established compounder of bio-based resins. Please contact Joe Piccini at info@ics-plastics.com or 1-866-206-9442 for quote inquiries. For custom resin blends, or other inquiries, please contact Alain Perreault, vice-president, business development, Cerestech, Inc. aperreault@cerestech.ca, 1-514-893-2089.

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About Cerestech, Inc.

Based in Montréal, Cerestech is a technology development and licensing spin-off from the École Polytechnique of Montréal. The company creates innovative, cost-effective, and sustainable resins for the flexible packaging, plastic-film recycling, and injection molding industries through its patented **Cereloy™** Polymer/Thermoplastic-Starch blend technology. To learn more about the company's cost-effective, high-performance and environmentally friendly alternative to polymer resin derived from non-renewable resources, visit www.cerestech.ca.

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