



Press release

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Phoenix Technologies receives Canadian letter of ‘no objection’ for its LNOTMc brand rPET process

Bowling Green, Ohio (May 13, 2009) —Phoenix Technologies has received a letter of “no objection” from Canada’s Health Products and Food Branch, Health Canada for the process used to produce the company’s LNOTMc brand of recycled, food grade polyethylene terephthalate (rPET) resin. (Health Products and Food Branch is the Canadian counterpart to the U.S.’s Food & Drug Administration.)

The Food Packaging Materials and Incidental Additives Section of the Chemical Health Hazard Assessment Division was responding to Phoenix’s request for comments on the acceptability of the recycling process for treating post-consumer rPET that would subsequently be used to produce food packaging. The letter of no objection pertains to container rPET content “of up to 50 percent.”

“We have been working with Canadian manufacturers on commercializing various food and beverage packaging applications. As such, we are very pleased to now have a letter of no objection from Health Canada to support our technology,” said Lori Carson, sales and marketing manager, Phoenix Technologies.

The LNOTMc process relies on Phoenix’s patented “extremely small particle size” technology. The tiny particle size enables much more efficient decontamination compared to other processes, resulting in faster output and significant energy savings. (The “c” in the brand name refers to the “compacted” resin that is the end result.)

MORE

Phoenix Technologies

Page 2

LNO™c technology produces rPET with superior color and yield as compared to other methods. Further, it has lower AA levels which positively impact taste properties. Another benefit is its consistently higher intrinsic viscosity (IV) or molecular weight which more closely matches the IV found in virgin resins. This enables higher package performance.

“Color, yield and taste attributes have traditionally been stumbling blocks in producing viable rPET—particularly with very sensitive liquids, such as water. Our LNO™c process overcomes those obstacles,” Carson said.

Although there have been successful trials of up to 100%, Phoenix is expecting most food grade applications to run between 25-50% rPET. The percentage of rPET vs. virgin resin will depend on individual product and processing parameters coupled with supply and economic impact.

In addition to creating rPET resin for sale directly to blow/injection molding and thermoforming operations, the company is also making its technology available to others (via license, partnership or turnkey system installation) wishing to set up their own rPET operation.

“Our philosophy is that rPET supply is better suited to multiple, smaller, processing operations across North America, vs. one or two large capacity plants. We believe in a local ‘consume, collect, convert’ approach. By locating rPET production in closer proximity to resin users, you improve supply times and reduce the carbon footprint,” Carson explained.

“Further, we’ve listened to the marketplace and have been able to engineer a resin that eliminates or minimizes many of the challenges that have prevented rPET from becoming a commercially viable alternative for many applications in the past. These include color, viscosity, acetaldehyde (AA) content and others,” she said.

Phoenix’s LNO™c resin is currently being trialed for a variety of containers both in the United States and Canada. Applications include water, beverage, deli, drinking cups, etc.

MORE

Phoenix Technologies

Page 3

About Phoenix Technologies

Phoenix Technologies is a global leader in recycled rPET manufacturing. The company produces clean, consistent and high-grade rPET resin pellets from post consumer recycled plastic flake shipped from all over the world. As the foremost manufacturer of rPET, Phoenix sets standards for quality, technology, service and value. Phoenix Technologies is a member of Plastic Technologies, Inc., Holland, OH family of companies. For more information: www.phoenixtechnologies.net.

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