

# Food Grade rPET

Collect, Convert  
and Consume  
Locally™

In response to the growing demand for food grade recycled polyethylene terephthalate (rPET) resin, Plastic Technologies, Inc. (PTI) has formed a new company called **PTI Recycling Systems LLC**. The company has been established to sell, service and support the modular system that produces Phoenix Technologies' LNO™c food-grade rPET resin. The modular system allows plant operators to collect, convert and consume locally with higher yields, faster throughput and at lower costs. **PTI Recycling Systems** has exclusive rights to global distribution of the LNO™c technology and its patented process.

## Advantages of Phoenix LNO™c technology for producing Recycled PET include:

- Enables a local collect, convert and consume supply.
- Provides a key strategy for companies who want to adopt commercially-proven food grade rPET production.
- Saves energy and lowers water consumption versus traditional extrusion methods
- Compact modular system built for conventional placement in blow molding, injection molding and thermoforming locations.



Phoenix LNO™c technology is a patented process that accomplishes the decontamination of post-consumer PET with minimal thermal and chemical degradation.

  
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RECYCLING  
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# Key advantages of the LNO™c process

## Cost Efficient

- Up to 12 cents per kg advantage over melt filtered food-grade technologies
- Reduces logistics by minimizing shipping costs
- Low maintenance

## Improved Properties

- Negligible color change
- Low acetaldehyde
- Customizable IV to match application requirements

## Environmentally Superior

- Zero water usage; zero chemical usage
- Lower waste disposal and emissions
- Less energy to process (see table)

## Scalable to Fit Localized Needs

- Optimized for 50% usage rate (higher percent usage systems can be engineered)
- The LNO™c process starts with rPET flake. If clean flake is readily available, no need to invest in wash capacity.
- Compact footprint

## Simple to Operate Injection

- LNO™c pellets handle like conventional PET pellets
- Processing of material is simplified.

The output of the LNO™c plant can be tailored to customer's site specific needs.

An LNO™c plant can be engineered to provide cost effective recycled PET in all market sizes. Contact PTI Recycling Systems to learn more.



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