

INNOVATE

Developing game-changing packaging

PTI also develops innovative packages that are not proprietary to a specific company. These concepts have been developed to address a variety of consumer-driven and brand-owner needs. Examples include:

Foam bottle technologies. PTI has developed new processes for blow molding lightweight, foamed PET containers. These emerging PET bottle making technologies offer new visual and tactile ways to market products in a wide variety of categories.

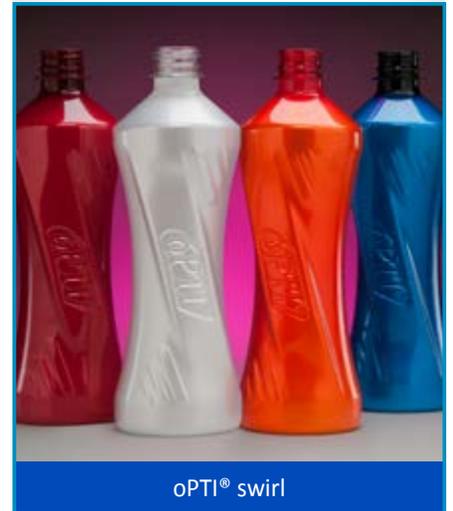
Brightpak® container. A next-generation liquid dispensing and delivery system featuring a collapsible rigid liner inside a bottle. The system targets sensitive chemicals and other products.

Deep Grip™ bottles. Injection stretch blow molding is used to create a new type of handle to facilitate lifting and carrying of larger containers.

Aura® infusion technology. An aqueous-based process which infuses organic additives into plastic-based packaging containers. This process represents a departure from typically-used coatings. It allows colors, barriers, UV blockers and microbial agents to be infused into plastic materials.

Smiler™ dual-compartment containers. Developed to address portion-size control for on-the-go snacking, the technology enables bottles/containers to be injection blow molded into different shapes and sizes.

BTC® Bottle Clip is an innovative, patented bottle connecting system developed by BTC Concept. Injection blow molded (PET, PE or PP) bottles are designed to nest, one into the other, to create a vertical product stack.



oPTI® swirl



Deep Grip™ bottles



Smiler™
dual-compartment containers

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Emerging materials

When you've worked with traditional polymers as long as PTI has, you know their strengths and limitations. That knowledge has provided the foundation for our involvement in creating or commercializing next generation materials and applications. This includes additives, barrier materials and colorants.

While performance is one aspect, the other key concern is how these materials impact the recycling stream. PTI has a long history in working with recycling stream protocols which can benefit brand owners and suppliers in commercializing new packaging innovations.

Biobased materials are next on the horizon. This emerging, and often complex area, typically requires a significant amount of technical knowledge in order to properly navigate through performance and processing issues.

Instruments which help meet performance objectives

An important aspect of commercializing performance-oriented packaging is to make sure you have access to testing or instruments that will tell you if your objectives are being met.

Plastic Technologies, Inc. has developed a variety of instruments to meet unique testing requirements. These industry-proven devices include:

TorqTraQ® device simplifies torque testing on both closures and cappers, while also improving accuracy and minimizing downtime.

OxyTraQ® oxygen permeation system is a fast, easy-to-use multi-station unit which delivers fast, reproducible results. It targets manufacturers and fillers of beverage bottles and can handle a wide range of containers from small barrier bottles to half-gallon jugs.

Laser Measurement System determines package dimensions and fill height. A sophisticated laser-based unit, in combination with proprietary software, performs dimensional analysis on containers of various shapes and sizes.

LeakMonitor ultrasonic sensor continuously monitors the blow molding process for air leaks from machine components and defective bottles. The new capability enables leak detection at production speeds typical for state-of-the-art blowmolding equipment.

PETWall® thickness measuring system has been designed for use in PET container production facilities. The PETWall® family of patented thickness measuring devices can be used to effectively detect containers with random distribution problems, as well as, provide valuable real-time-process and production information.



Material evaluations



TorqTraQ® device

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