

 **Sealed Air**

**Instapak®**

Foam Packaging



**Instapak® Foam:**

**Versatile**



# Sealed Air Sustainability

## Our Focus on Product and Process Innovation Centers Around Three Benchmarks

Sealed Air has always recognized the importance of our relationship with the environment. Our history of product and process innovation reflects this long-term commitment.

### Production and Manufacturing

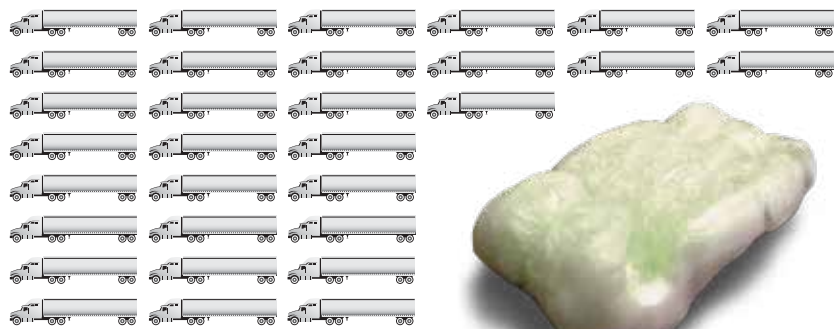
Sealed Air's world class manufacturing practices include comprehensive environmental programs to reduce waste quantities, energy usage, water usage and emissions. We remain committed to reducing our environmental footprint by cutting Greenhouse gas (GHG) emissions, pursuing renewable energy sources and increasing our active yield.

### Application and Performance

Instapak® foam makes an immediate positive impact on both the environment and our customers' bottom lines through superior performance and reduction of material usage. Efficient design means using the right amount of packaging material to reduce waste, cube size, carbon footprint and associated fuel costs for transport. The product arrives in one piece, eliminating the environmental impact of repackaging and reshipping.



**1** trailer load of Instapak® Instafill® chemical = **31** trailer loads of EPS loose fill



### Distribution and Transportation

Instapak® foam expands on-site, up to 280 times its original volume, greatly reducing the amount of energy used to transport it. For example, one trailer load of Instapak® Instafill® chemical produces the equivalent of 31 trailer loads of expanded polystyrene loose fill.



# Instapak® RC45 Foam

## Trusted Instapak® Foam Performance with 25% Renewable Content

Sealed Air is committed to providing our customers solutions that make sense for their operation, their bottom line and the environment. Our packaging designers have used Instapak® foam to provide maximum product protection with a minimum of packaging material. Engineers in our Packaging Design & Development Centers eliminate more than 2 million pounds of our customers' excess packaging material each year. It is this spirit of commitment and determination that led us in the development of our latest Instapak® product, Instapak® RC45 renewable content packaging foam.

- Plant-based Instapak® foam formulation
- Contains 25% renewable content in the finished foam
- Reduces dependence on petroleum-based components
- Enhances Instapak® foam's position as a source reducing packaging material
- Performs equally with current Instapak® foam materials
- Works with all Instapak® systems
- Can be diverted from landfills like all other Instapak® foam products via our worldwide foam return program



## ENVIRONMENTAL PROFILE

**Our cushions carry an informative message to your customers about Instapak® foam and the environment.**

### Reduce

Sealed Air packaging design and sales professionals eliminate over 1,000 tons of packaging materials each year by designing packaging solutions using high-performance Instapak® foam.

### Reuse

Resilient Instapak® foam cushions can be designed to meet the needs of companies that use packaging for multiple shipments. Instapak® foam cushions can also be reused as carton fillers or reshaped manually to fit the next product shipped.

### Return

Instapak® foam can be returned to any of over 20 worldwide foam-return locations.

### Waste-to-Energy

In modern waste-to-energy combustion facilities, Instapak® foam processes more efficiently than paper or wood, leaving less than 1% residual ash.

### Landfill Compatibility

Instapak® foam compacts to approximately 10% of its original volume in a landfill. It is biostable and will not degrade to pollute air or groundwater.



# Minimum Packaging Costs— Maximum Product Protection

## Instapak® Foam Packaging Saves You Money

One of the most economical packaging materials available, Instapak® foam can cut your material costs dramatically — without compromising product protection.

### Space Savings

Because Instapak® foam expands up to 280 times its liquid volume, the equivalent of a trailer load of packaging material can be stored in two 55-gallon drums. Instapak® foam only expands when, where and as you need it.

### Versatile

With the Instapak® packaging process, you can economically and efficiently protect products of almost any size, shape and weight. For virtually everything you manufacture, protective foam cushions can

be created on-demand and placed where needed for precision cushioning, high-speed void fill or heavy-duty blocking and bracing.

### Engineered Protection

Instapak® high-performance packaging foam is designed to protect your products during shipping, warehousing and general handling. Its unique cushioning abilities allow you to package your product with a minimum amount of material.

### Fast

With the Instapak® foam packaging process, your products are simultaneously boxed and protected. In fact, our foam-in-bag packaging equipment can produce up to 21 protective cushions per minute at the touch of a button.



## METHODS



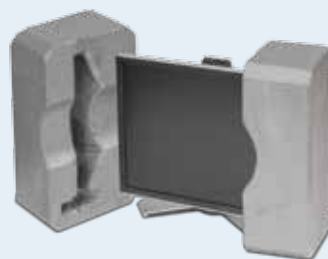
### Protective Void Fill

Ideal for high-volume “pick and pack” operations and distribution centers, Instapak® systems deliver clean, fast and cost-effective alternatives to conventional void fill materials.



### Blocking and Bracing

When packaging rugged products, Instapak® foam can be used to prevent movement within the carton.



### Cushioning

For products that require engineered product protection or exact product positioning, the Instapak® process produces highly protective, custom-fit molded cushions.



### **Flexible**

There is an Instapak® solution to fit every packaging operation, regardless of volume, throughput or configuration (online or decentralized).

### **Customer Satisfaction**

With Instapak® foam packaging, your customer receives a damage-free product in a neat, professional package. The foam can then be reused or returned to over 20 Instapak® foam-return locations worldwide.



## FOAM-IN-PLACE

# A Process and System for Every Need

## Instapak® 900 Series Systems

Our hand-held line of systems, featuring the model 900 and 901, is the latest generation of proven, all-electric, foam-in-place packaging systems, featuring electric metering pumps and self-diagnostic controls to guarantee top-quality Instapak® foam packaging.

### Foam-in-Place

A simple cushioning or blocking-and-bracing process protects a variety of items of different shapes and sizes.



- 1 Instapak® foam is dispensed into a carton lined with high-strength Instamate® film.



- 2 The Instamate® film is folded over, and the product is placed on the rising foam.



- 3 A second sheet of Instamate® film is placed over the product, and more Instapak® foam is dispensed.



- 4 Your customer receives your product undamaged.

*All Instapak® systems feature patented, self-cleaning dispensers.*





## The Industry Standard for Foam-in-Place

### Economical

With the available pre-programmed settings, you control the amount of material used. A series of ten dispense times can be used to simplify your packaging process.

### Flexible

The Instapak® 901 system can be adjusted to dispense foam at the ideal flow rate for your application. Instapak® 901 foam output rate: 5 to 7.5 lbs/min.

### Safe

The Instapak® 901 system meets major international product safety standards.



### Reliable

The electric pumps and self-diagnostic controls guarantee top-quality Instapak® foam.

### Simple

The all-electric Instapak® 901 system installs in minutes. No scheduled maintenance is required.



*The state-of-the-art console has foam output controls, built-in timers and self-diagnostic features for user-friendly operation.*

### Foam-in-Place Molding

This process produces specifically designed cushions for ultimate protection and efficiency.



1 An item to be fitted for a custom mold is selected.



2 A simple wood mold is used to produce the desired cushion shape.



3 Instamate® film is placed into the mold, and Instapak® foam is dispensed.



4 Your product is packaged safely in custom-shaped, engineered cushions.



## FOAM-IN-BAG

# A Process and System for Every Need

## Instapacker® Tabletop System

This affordable foam-in-bag packaging system combines the proven reliability of our 900 Series metering systems with the convenience and cost-effectiveness of the foam-in-bag process. The easy-to-use Instapacker® Tabletop system has an incredibly small footprint but can make a big impact on your shipping operations. Capable of producing up to 16 Instapak® foam-filled bags per minute, this versatile system can support the packaging needs of shipping rooms, multiple pack station operations and even the production floor.



### Just-in-Time Operation

Our affordable, easy-to-use foam-in-bag packaging system saves valuable workspace.



**1** Press any one of the ten preset foam-amount keys to dispense a foam-filled bag.



**2** Remove the bag of expanding foam by tearing at perforations.



**3** Place the Instapak® foam-filled bag into the carton and place the product to be packaged on top of the expanding bag.



**4** Form a top cushion by placing a second Instapak® foam-filled bag on top of the product and closing the carton.



## Instapak Quick® RT Packaging

Instapak Quick® RT packaging foam is lightweight and highly portable, making it ideal for on-demand protective packaging in warehouses, offices, mailrooms or on the go.

Instapak Quick® RT packaging foam is a versatile and convenient packaging method with no start-up costs. Any packaging operation can now enjoy all the benefits of Instapak® foam packaging without the traditional dispensing equipment.

### Just Press, Pat and Pack

All the benefits of custom Instapak® foam packaging – with no system or warmer required.



**1** Completely unfold an Instapak Quick® RT bag, and lay on a flat surface. Press hard on the component “A” oval to break the seal.



**2** Pat back and forth on the “A” and “B” ovals 15 to 20 times. The foam inside the bag will begin to expand.



**3** Place the expanding foam-filled bag in the shipping carton and nestle the product onto the cushion.



**4** Place a second expanding bag on top of the product and close the carton flaps, creating a top cushion.



# Instapak Complete® System

## Reduce Cube Size and Minimize Packaging Material with Small Diameter Tubes

### On-Demand Flexible Protection

The Instapak Complete® foam packaging system from Sealed Air creates Continuous Foam Tubes (CFTs) and foam-filled bags. The system uses a range of Instapak® high-performance packaging foams that provide superior protection with minimal foam usage. A compact design, customizable programming and just-in-time accumulation capability makes the Instapak Complete® system a perfect fit for any size packaging operation.

### Advanced Instapak® CFT Technology

The Instapak Complete® system features a variety of new advancements that improve on our Instapak® CFT technology.



- Flow controlled dispensing allows the system to produce foam filled tubes, ranging from 1" to 5" in diameter
- Perforations can be programmed to suit individual needs and applications
- User-friendly touch key control panel allows operators to choose from 24 pre-programmed CFT or foam bag combinations

### Wind It Up and Let It Go

Our optional accumulator attachment feeds Instapak® CFT material into a cushion bin, where it can be batched for later use or delivery to multiple workstations. These tubes can then be distributed to decentralized workstations or stored for peak usage.

### Get More by Using Less

Capitalizing on the ability to produce low-profile material, the Instapak Complete® can deliver significant protection while allowing the packager to reduce cube size and overall shipping volume. By reducing material usage, users can also save on dimensional weight shipping fees and the environmental resources necessary to transport larger volume packages.

## COMPACT FOOTPRINT



*The compact footprint of the Instapak Complete® system makes it ideal for tabletop placement, yet the speed and versatility of the system can handle the most rigorous high-volume, high-throughput environments.*



# SpeedyPacker Insight® Packaging Systems

## Foam-in-Bag Packaging at the Touch of a Button

Our SpeedyPacker Insight® systems can deliver up to 21 foam-filled bags per minute, providing maximum productivity and product protection at the touch of a button. Both our benchtop

and height-adjustable floor models can produce traditional foam-in-bag packaging as well as our Continuous Foam Tubes.



### Foam-in-Bag

Foam-filled bags in a variety of sizes are placed where needed for void fill, cushioning, or blocking and bracing.



**1** With the touch of a button, the operator selects the proper bag length and amount of Instapak® foam required.

**2** The operator places the foam-filled bag into the carton and nestles the product onto the expanding cushion.



**3** A second foam-filled bag is placed on top of the product, and the carton flaps are closed.



**4** The foam-filled bag expands around the product and against the carton to form a top cushion.



### Continuous Foam Tubes (CFT)

Continuous Foam Tubes can be used for a number of packaging applications.



**1** The full-color, user-friendly control panel features one-touch operation.



**2** CFT technology lets you use the SpeedyPacker Insight® system to produce a series of foam-filled tubular cushions.



**3** The system can be set to batch produce and accumulate Continuous Foam Tube packs for later use or for delivery to multiple workstations.



**4** The versatile CFTs can be used for end caps, bottom-base pads or corner and edge protection.



# Innovative Options

## Instapak® Foam-in-Bag Molding Equipment

Our Instapak® foam-in-bag molding equipment produces specifically shaped cushions for products that require a consistent, precise fit and engineered protection. Whether you are packing 20 or 2,000 products a day, we have a molding system to fit your needs.



*Twin Vertical Molding Station*



*Instamolder™ System*

### Foam-in-Bag Molding

Custom-designed cushions are produced quickly and provide optimum protection.



1 With the push of a button, the SpeedyPacker Insight® system quickly dispenses an Instapak® foam-filled bag.



2 When the foam-filled bag is placed into the mold enclosure, an on board vacuum draws the bag into the mold cavity.



3 Aided by a built-in air ejection system, the operator removes a finished cushion from the mold cavity where it has been allowed to fully expand.



4 In under a minute, a cost-effective engineered package is ready to protect your product during shipping and handling.



*Instapak®  
Molding Wheel*

## Instapak® TempGuard™ Cold Chain Packaging

TempGuard™ cold chain packaging provides a high-performance solution for reducing shipping costs when transporting thermal sensitive products. Instapak® polyurethane foam is proven to insulate better than expanded polystyrene (EPS), keeping products colder, longer. This allows a customer to choose a more cost-effective shipping option.



Instapak® TempGuard™ coolers can be custom designed to your exact specifications using custom molds and the correct density of Instapak® foam.

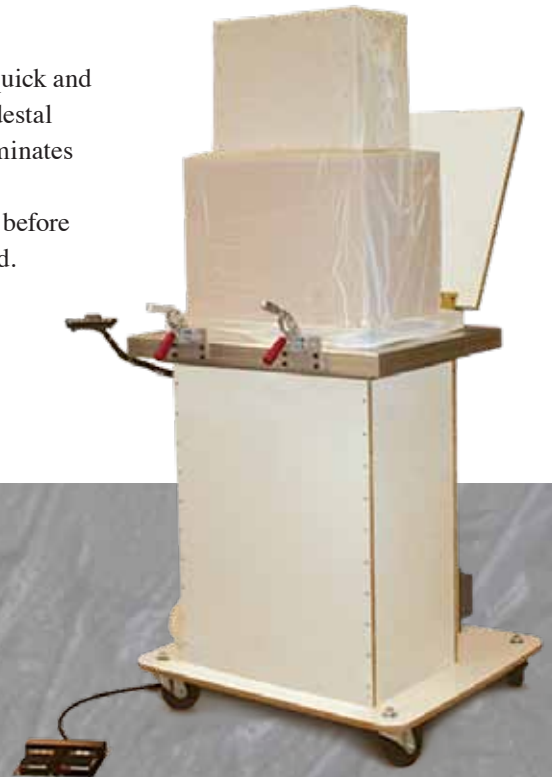
Your cold chain packaging solution will balance performance and cost to save you money on materials and freight. The engineering team in Sealed Air's Packaging Design and Development Centers can also test the performance of the solution using Sealed Air's TurboTag® RFID monitoring time and temperature system.



## Instapak® Pedestal Molding™ System

The Instapak® Pedestal Molding™ system, in conjunction with the Instapak® 900 Series hand held foam dispensing system, allows customers to create cushions without limit to mold cavity depth or minimum wall thickness. The system raises the engineered

mold out of the molding cavity for quick and easy placement of the Instapak® Pedestal Molding™ packaging film. This eliminates the need to tuck a large flat sheet of packaging film into the mold cavity before dispensing liquid foam into the mold.



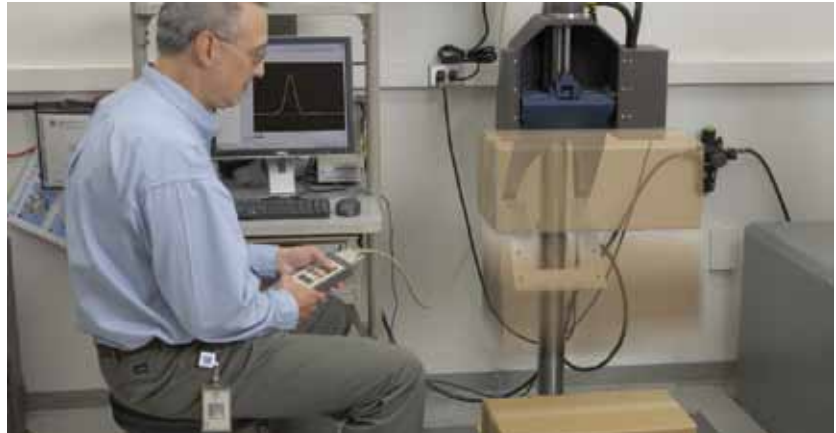
# Proven Performance

## Sealed Air Provides Packaging Consultation, Package Design and ISTA-Certified Testing and Evaluation

At 35 Packaging Design and Development Centers worldwide, Sealed Air designs the most efficient packaging for our customers, reducing both the volume and weight of the material used.

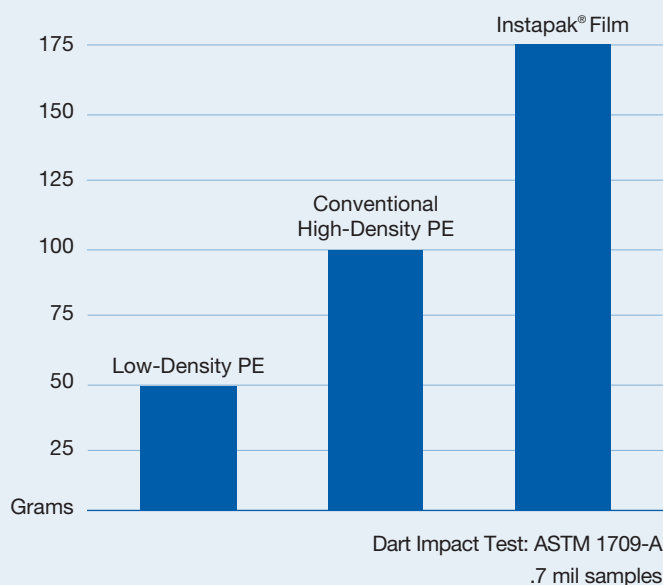
With a Sealed Air Instapak® packaging solution, it is easy to increase productivity and improve customer satisfaction levels. Your local Sealed Air sales team will thoroughly evaluate your packaging operation and offer the following:

- The best package design and Instapak® foam packaging method for your application
- A value analysis of the cost savings associated with a Sealed Air solution
- The ideal Instapak® packaging system for your operation, plus information on integrating these systems with your other material-handling equipment
- The best training and support services in the industry to ensure you are using Instapak® products effectively and economically, right from the start



*The engineers in our ISTA-certified packaging design and development centers will design and test a sample package for your product and provide you with a detailed analysis of our findings.*

## FILM STRENGTH



## HIGH-PERFORMANCE INSTAPAK® FILM

The unique combination of strength and flexibility in Instapak® film provides a tough exterior to the foam cushion for unparalleled product protection.





# Added Value

## Instapak® Connect™ Remote Asset Management

### Instapak® Connect™ Remote Asset Management System

Sealed Air has enhanced its world-class customer service by equipping qualifying Instapak® systems with remote asset management capabilities. The Instapak® Connect™ enhancement provides Sealed Air with crucial diagnostic information in real time, which will help prevent costly downtime to your operation.

#### Features Include:

##### Cellular Connection

Sealed Air provides a wireless uplink, eliminating the need for “hard-wired” phone cables or expensive analog telephone lines.

##### Website

Customers can access a 24-hour web portal, which provides up-to-the-second system status, cycle counts and more.



##### Compatibility

Our web portal works with all major browsers and is smartphone-enabled for easy access.

##### Notifications

Select e-mail alert notifications so you'll always have the latest information.

##### Customer Service Team

When something does happen, our award-winning customer service team will respond within hours to make sure you are up and running smoothly.

## Full Line of Foams Optimize Performance

### The Instapak® Family of Foams: Meeting a Wide Range of Packaging Requirements

Standard Foams			Specialty Foams		
Container Sizes (Gal.)			Container Sizes (Gal.)		
UltraLite® Foam	Void Fill	15/55/275	FlowRite® Foam	Extended-Rise, Mid-Density Foam	55/275
Instafill® Foam	Void Fill, Light Cushioning	15/55/275	Instaflex™ Foam	High-Performance, Resilient Cushioning	15/55/275
Instapak® 40W Foam	All-Purpose Cushioning	15/55/275	GFlex® Foam	High-Performance, Low-Cube Cushioning	55/275
Instapak® 50W Foam	Extra-Strength Cushioning	15/55/275	GFlex® QS Foam	Quick-Set, High-Performance	15/55/275
Instapak® 75W Foam	Heavy-Duty Cushioning, Light Blocking and Bracing	15/55/275	Instapak® Rigid 125 Foam	Blocking and Bracing/Floral	15/55/275
Instapak® Molding Foam	Slow-Rise Molding	15/55/275	Instapak® Rigid 150 Foam	Medium Blocking and Bracing Heavy-Duty Tree Arrangements	15/55/275
<b>Military Specification Foams*</b>			Instapak® Rigid 200 Foam	Heavy-Duty Blocking and Bracing	15/55/275
MilFlex™ Foam	Class III	55/275	Instapak® RC45	Renewable Content Packaging Foam	15/55/275
MilForce™ Foam	Class I, Category 1 and Class I, Category 2	55/275			

\* These Instapak® foam formulations are capable of meeting military specification MIL-F-83671A.

# Instapak® Foam Versatility

There are many ways to use Instapak foam packaging to protect your projects. Some common applications:



## In Place

The simplest way to use Instapak® Foam-in-Bag packaging. Simply nestle a product into an expanding foam bag for custom product protection or place the bag on top of items for instant void fill.



## Molded Cushions

Packaging the same size part or product over and over? Use one of our molding systems to create consistently sized and shaped packs.



## Continuous Foam Tubes

Use a sheet of CFTs to wrap your product in engineered protection, or layer CFTs to create effective flat pads.

## SmartLife™ Approach

Our SmartLife™ multifaceted approach is to raise awareness about sustainable packaging and to advance Sealed Air's sustainable mission within the Company's larger business strategy. Sealed Air is committed to helping its stakeholders understand the environmental benefits and impacts of packaging solutions.

Our SmartLife™ approach, in conjunction with Sealed Air's values — lead, trust, respect and integrity — provides the foundation upon which the company's business is conducted.



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