

### Instapak<sup>®</sup> Foam Packaging

### Engineered Product Protection



# Sealed Air Sustainability

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.

### Our focus on product and process innovation centers around three benchmarks:

#### Production and Manufacturing

Sealed Air's world class manufacturing practices include comprehensive environmental programs to reduce waste, air emissions, energy and water usage. 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<sup>®</sup> 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 undamaged, eliminating the environmental impact of repackaging and reshipping.

#### Distribution and Transportation

Instapak<sup>®</sup> foam expands on-site, up to 280 times its original volume, greatly reducing the amount of energy used to transport it.



1 trailer load of Instapak<sup>®</sup> Instafill<sup>®</sup>-LCF components = 31 trailer loads of EPS loose fill

### Trusted Performance Efficient Solutions

#### **INSTAPAK® FOAM ENVIRONMENTAL PROFILE**

Our cushions carry an informative message to your customers about Instapak<sup>®</sup> 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<sup>®</sup> foam.

#### Reuse

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

#### Return

Instapak<sup>®</sup> foam cushions can be returned to many worldwide foam-return locations.

#### Waste-to-Energy

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

#### Landfill Compatibility

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

#### DIMENSIONAL WEIGHT PRICING

The recent dimensional weight pricing changes put in place by major carriers provide a great opportunity to optimize your packaging, while minimizing your environmental impact. Instapak® foam packaging is an efficient packaging solution that can help companies protect products and bottom lines by providing significant product protection during shipping, while taking up minimal space in the container.

#### **INSTAPAK® RC45 FOAM**

Sealed Air is committed to providing our customers with solutions that make sense for their operation, their bottom line and the environment. It is this spirit of commitment and determination that led us in the development of Instapak<sup>®</sup> 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<sup>®</sup> foam's position as a source reducing packaging material
- Can be diverted from landfills like all other Instapak® foam products via our worldwide foam return program



# Minimum Packaging Costs— Maximum Product Protection

#### **INSTAPAK® FOAM PACKAGING**

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

#### Space Savings

Because Instapak<sup>®</sup> 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<sup>®</sup> foam only expands when, where and as you need it.

#### Versatile

With the Instapak<sup>®</sup> 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<sup>®</sup> 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.

#### Flexible

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



#### Fast

With the Instapak<sup>®</sup> 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.

#### **Customer Satisfaction**

With Instapak<sup>®</sup> foam packaging, your customer receives a damage-free product in a neat, professional package. The foam can then be reused or returned to any Instapak<sup>®</sup> foam-return location worldwide.



#### FULL LINE OF FOAMS OPTIMIZE PERFORMANCE

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

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

#### **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.

# 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-inplace packaging systems, featuring electric metering pumps and self-diagnostic controls to guarantee top-quality Instapak<sup>®</sup> foam packaging.

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

#### Safe

The Instapak<sup>®</sup> 901 system meets major international equipment safety standards.



#### Reliable

The electric pumps and self-diagnostic controls guarantee top-quality Instapak<sup>®</sup> foam.

#### Simple

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



All Instapak<sup>®</sup> systems feature patented, self-cleaning dispensers.





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

#### Foam-in-Place

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



Instapak<sup>®</sup> foam is dispensed into a carton lined with high-strength Instamate<sup>®</sup> film.



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

### Foam-in-Place Molding

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



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



Instamate<sup>®</sup> film is placed into the mold, and Instapak<sup>®</sup> foam is dispensed.



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



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





Your customer receives your product undamaged.

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

#### **INSTAPAK COMPLETE® SYSTEM**

#### **On-Demand Elexible Protection**

The Instapak Complete® foam packaging system from Sealed Air creates Continuous Foam Tubes (CFTs). 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-intime 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 12 pre-programmed CFTs

#### Wind It Up and Let It Go

Our optional accumulator attachment feeds Instapak® CFT material into a cushion bin or optional rolls, 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.

15.5" (39 cm

#### SPEEDYPACKER INSIGHT® PACKAGING SYSTEMS

Our SpeedyPacker Insight<sup>®</sup> 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.



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



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



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



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.



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



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



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



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

### 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<sup>®</sup> Tabletop system has an incredibly small footprint but can make a big impact on your shipping operations. Capable of producing up to 16 Instapak<sup>®</sup> 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.



#### INSTAPAK<sup>®</sup> SIMPLE<sup>™</sup> SYSTEM

Introducing the Instapak<sup>®</sup> Simple<sup>™</sup> foam-in-bag packaging system. True to its name, the Instapak<sup>®</sup> Simple<sup>™</sup> system is our easiest to use foam system yet, merging the premium performance of Instapak<sup>®</sup> foam packaging with an ondemand delivery system that requires minimal training and service.

#### **Simply Superior Features**

What sets Instapak<sup>®</sup> Simple<sup>™</sup> apart from other foam packaging methods:

- Powered through a standard electrical outlet
- Pre-set push button operation
- Small 2.5 gallon material bottles snap into place
- Designed to require minimal, if any, service
- Packaging that just works, right out of the box
- The entire compact platform is mobile

#### No Mess, No Fuss

In addition to being easy-to-use, the Instapak<sup>®</sup> Simple<sup>™</sup> system is virtually mess-free. All foam components and materials are self-contained at all times, eliminating clean-up or exposure concerns. And thanks to simplified system operation, Instapak<sup>®</sup> Simple<sup>™</sup> is also mess-up free — packagers are assured consistent, pre-determined packaging material every time.





#### **INSTAPAK® QUICK RT® PACKAGING**

Instapak<sup>®</sup> Quick RT<sup>®</sup> packaging foam is lightweight and highly portable, making it ideal for on-demand protective packaging in warehouses, offices, mailrooms, at home or on the go. It is handy, custom packaging for what matters most.

Instapak<sup>®</sup> Quick RT<sup>®</sup> 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<sup>®</sup> foam packaging without the traditional dispensing equipment.

#### JUST PRESS, PAT AND PACK

All the benefits of custom Instapak<sup>®</sup> foam packaging—with no system or warmer required.



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



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



Quickly place the expanding foam-filled bag in the shipping carton and nestle the product onto the cushion.



Quickly place a second expanding bag on top of the product and close the carton flaps, creating a top cushion.

### **Molding Equipment**

#### INSTAPAK® FOAM-IN-BAG MOLDING EQUIPMENT

Our Instapak<sup>®</sup> 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.



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



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.



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



In under a minute, a costeffective engineered package is ready to protect your product during shipping and handling.



#### **INSTAPAK IMOLD®**

The fully automated Instapak iMold® system instantly creates engineered, pre-molded Instapak® foam cushions. Sealed Air's patented Foam Dispersion Technology<sup>™</sup> guarantees cushion consistency and integrity by dispensing Instapak® foam where it's needed most, while eliminating material waste. Operators only need to select a mold and the desired number of cushions and the Instapak iMold<sup>®</sup> system does the rest.

#### **INSTAPAK® PEDESTAL** MOLDING<sup>™</sup> SYSTEM

The Instapak<sup>®</sup> Pedestal Molding<sup>™</sup> 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 29 Packaging Applications 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<sup>®</sup> 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<sup>®</sup> foam packaging method for your application.
- The ideal Instapak<sup>®</sup> packaging system for your operation, plus information on integrating these systems with your other materialhandling equipment.
- A value analysis of the cost savings associated with a Sealed Air solution.
- The best training and support services in the industry to ensure you are using Instapak<sup>®</sup> products effectively and economically, right from the start.

#### HIGH-PERFORMANCE INSTAPAK® FILM

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



The engineers in our ISTA-certified Packaging Applications Centers will design and test a sample package for your product and provide you with a detailed analysis of our findings.

#### **FILM STRENGTH**



### Cold Chain INSTAPAK<sup>®</sup> TEMPGUARD<sup>™</sup> COLD CHAIN PACKAGING



TempGuard<sup>™</sup> cold chain packaging provides a highperformance solution for reducing shipping costs when transporting thermal sensitive products. Instapak<sup>®</sup> 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<sup>®</sup> TempGuard<sup>™</sup> coolers can be custom designed to your exact specifications using custom molds and the correct density of Instapak<sup>®</sup> foam. The engineering team in Sealed Air's Packaging Applications Centers can also test the performance of the solution using Sealed Air's TurboTag<sup>®</sup> RFID monitoring time and temperature system.

#### INSTAPAK<sup>®</sup> CONNECT<sup>™</sup> REMOTE ASSET MANAGEMENT



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

#### Features Include:

- Wireless Cellular Connection
- 24-hour Web Portal
- Cross-platform Compatibility
- E-mail Notifications
- Customer Service Support





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