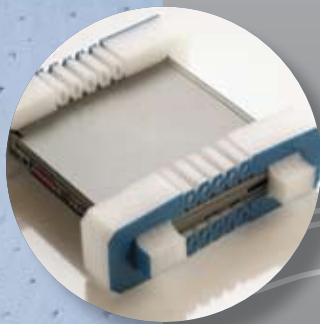




Pregis

Protective Packaging Solutions



Complete Protective Packaging Guide

THINK PREGIS.

For innovative protective packaging.



At Pregis, our goal is to provide customers with a **deep breadth of high quality, superior protective** packaging solutions while remaining on the forefront of R&D and technology. We strive to continually bring **new, innovative protective packaging** offerings to the marketplace and are committed to incorporating and promoting **business practices that respect both the earth and the environment.**



Think Sustainability
Think Pregis™

Pregis Corporation is a leading global provider of innovative protective, flexible, and foodservice packaging and hospital supply products. The specialty-packaging leader currently operates 47 facilities in 18 countries around the world.

GeoSpeed¹⁰⁰
Paper Systems for Pallets



THINK VERSATILITY.

Our goal at Pregis is to provide customers with a variety and assortment of protective packaging products that are high in quality and developed to fulfill a wide range of product protection needs. Our expert sales and customer service teams are available 24-7 to help determine the proper protective packaging for your custom application.



SUSTAINABILITY

Pregis' comprehensive waste-reduction strategy combines recycled and post-consumer material in product manufacturing, with efficient transportation and logistics. Our conservation programs include internal office paper and supply recycling as well as proactive reductions in energy use.



CONTAINMENT

Applications that require support and padding during transit, protective encapsulation and cushion support will be safe in one of the many containment solutions that Pregis has to offer.



SURFACE PROTECTION

For products with delicate finishes and surfaces that abrade, scratch or mark easily, Pregis offers a wide spectrum of wrapping materials that protect products from surface damage during storage and transport.



CUSHIONING

Pregis protective packaging options provide superb cushioning on internal packaging applications to prevent damaged goods resulting from shock and vibration. Our versatile range of cushioning products also provides protection from unavoidable motion and vibration between the packaging and its contents.



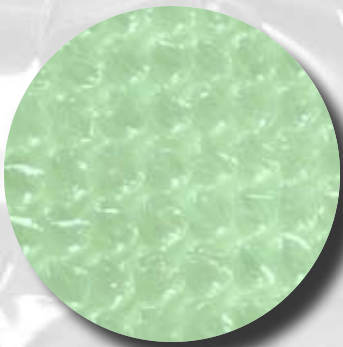
VOID FILL

Pregis offers a number of protective packaging solutions designed to be interior-fill materials for stock packaging components such as boxes. Our AirSpeed™ and GeoSpeed™ systems are fast, environmentally sensible and easy to use, preventing products from shifting during transport or handling.



BLOCK AND BRACE

Pregis blocking and bracing protective packaging options position and restrict products within the interior of a secondary package to prevent them from unwanted movements. We offer customizable solutions that are cost effective and efficient to use.



SYSTEMS



AirSpeed™ HC (Hybrid Cushioning) Inflatable Packaging System

- Creates hybrid cushioning material at speeds of 75 feet a minute - the fastest machine of its kind on the market.
- AirSpeed HC material is ideal for top, side and bottom void fill, block and brace, wrapping, packing and cushioning.
- The AirSpeed HC system also has significant ease-of-use benefits over other block and brace materials, especially over messy chemicals such as foam-in-place.



AirSpeed™ 5000 Inflatable Packaging System

- Unit converts film into air cushions at a blazing rate of 75 feet per minute.
- Air cushions are created using ambient air, eliminating need for an external air supply.
- Multiple film grades and pillow sizes maximize flexibility.
- Machine and cushions have proven durability.
- Quick-to-load, easy-to-operate.
- Dispensing options or accessories available to increase efficiency.



AirSpeed™ 9000 Engineered Inflatable Packaging

- Unique design keeps air tubes securely inflated to cushion products during shipment and travel.
- Patented one-way valves mean that if one air chamber is punctured, the other chambers remain inflated.
- Pair this innovative packaging solution with the AirSpeed Pulse, our custom table top inflator, to maximize your operational efficiency.



AutoFlow™ Inflatable Packaging System

- Increases efficiency: High speed AutoFlow reduces labor and increases packaging throughput.
- Cost-effective: Paired with the AirSpeed 5000 or AirSpeed HC, this unit delivers low-cost material and shipping, labor efficiency and space savings.
- Simple: Easy-to-program and easy-to-load.
- Ergonomic: Separates cushions for operator eliminating manual pulling and tearing perforated pillows.



GeoSpeed™ 100 Paper Packaging System

- Delivers crumpled, recyclable, renewable and biodegradable kraft paper packaging material at variable speeds of up to 70 inches per second.
- Patented design produces tightly crumpled paper that is ideal for void-fill, cushioning, wrapping or blocking and bracing.



AirSpeed™ Smart™ System

- The Smart system turns flat, easy-to-store, performance film into durable, lightweight, non-abrasive void-fill cushioning on-demand.
- Small, self-contained unit is ideal for compact packaging operations.
- Operators control air-fill levels and select pillow sizes that best suit their needs.
- Simple to set-up and operate.



AirSpeed™ 3000 Packaging System

- The 3000 system produces a continuous chain of air cushions sized to fit your specific needs.
- Changes pillow length on demand.
- Uses heavier duty film.
- Dispensing options or accessories available to increase efficiency.



ENGINEERED FOAM



PolyPlank® Engineered Foam Plank

- Offers outstanding ease of fabrication, economy, material performance and reliability.
- Unique closed-cell construction provides superior protection against shock and vibration.
- Is water and chemical-resistant and non-abrasive.
- Layers of extruded PE foam are laminated to provide maximum cushioning economically.
- PolyPlank foam is a flat, non-dusting and non-abrasive plank.
- MDL™ (Multi-Density Laminated) foam's unique PEHD skin to PELD base lamination enhances design characteristics, and is designed with excellent compressive creep properties.



ProFlex® Extruded PE Profiles

- Able to conform to nearly any product contour.
- Has a chemically inert, clean, closed-cell structure.
- Offers excellent resiliency, flexibility and shape memory.



FOAM



Astro-Foam® PE

- Provides high cushioning and compression strength for repeated use.
- Flexibility and resilience make it easy to use.
- Sheets can be laminated to a number of substrates to meet specific application needs.
- Offers high cushioning, compression strength and tear resistance.
- Anti-static, density and lamination options provide appropriate protection for your product.



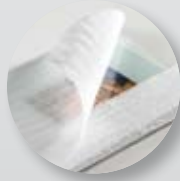
Microfoam® PP Sheet Foam and Cohesive PP Foam

- High coefficient of friction provides unrivaled protection.
- Does not tarnish or corrode sensitive materials.
- Permeability allows vapor release to protect against condensation and water damage.
- Combines Microfoam sheet foam with a special cold-seal coating.
- Microfoam cohesive foam adheres to itself, but not your product.
- Creates an instant, highly protective package.



Microguard® PP Sheet Foam

- High coefficient of friction provides unequalled vibration and shifting protection for easily scratched finishes during transit.
- Available in 3 stock sizes for just-in-time delivery.
- Permeability allows vapor release to protect against condensation and water damage.
- Provides superb cushioning, interleaving, surface protection, vapor transmission, thermal and insulation properties.
- No minimums needed.



Automated Sheeting and Sealing Systems

- Systems control waste and increase operational efficiency by providing automatic, pre-formed, pre-cut Astro-Cell® bubble, Microfoam® PP and cohesive foam, or Astro-foam® PE foam on demand.



BUBBLE



Astro-Cell® Air Cushioning

- Keeps products of all shapes and sizes securely in place.
- Cushioning qualities protect items from shock, vibration and abrasion.
- Astro-Cell Plus co-extruded barrier bubble provides high performance protection.
- Bubble's transparency provides easy product identification.



Astro-Bubble® Green™ Air Cushioning

- Up to 40% recycled content, 20% from post-consumer sources.
- Easy-to-identify light green color.
- Manufactured using reusable polyethylene resin.
- Designed to provide puncture resistance, exceptional elongation and tensile strength.
- Environmentally sensible alternative.



Astro-Bubble® Renew™ Air Cushioning

- Uses 25% pre-consumer resin.
- Economical protection for lighter weight products with relatively short storage or shipping cycles.
- Designed to provide puncture resistance, exceptional elongation and tensile strength.
- Environmentally-sensible alternative.



EZ™ Bubble-Out® Bags-on-a-Roll

- Dispense cushioned bags at point of use.
- Feature self-seal closure and easy product identification.



MAILERS



Pregis' lines of mailers offer an efficient, environmentally conscious alternative to corrugated shippers. Lighter shipping weight, less material used during product manufacture, and maximized truck space are all ways that Pregis helps to meet the protective packaging needs of our customers while minimizing environmental impact. All of Pregis' mailers are designed to high-quality specifications:

- Engineered for reliable, user-friendly product protection.
- Feature tough construction and dependable performance.
- Economical method of guarding and containing products from damage.
- Padded and bubble-lined mailers provide cushioning and lightweight options when mailing items susceptible to impact during transit.



Hefty® Slide-Rite® Utility Bags

- Slider and track designed for ease of use.
- Bags give you a secure, positive close.



MARKETS SERVED

ELECTRONICS

Pregis has the broadest product line of electronics packaging in the industry. Our highly versatile **PolyPlank®** engineered packaging is perfect for shipping delicate consumer electronics and computer components. Pregis' **Astro-Foam®** and **Astro-Cell®** are extremely adaptable to any packaging need, and offer economical, effective answers for void-filling, interleaving, wrapping and cushioning protection.



FURNITURE

Pregis' **Astro-Cell®** air cushioning, **Microfoam®** and **Furniture Guard®** foam, as well as our **laminations and edge protection**, give any delicate finish or upholstery the cover it needs. These products, with our systems, create convenient, on the spot packaging solutions that make protecting your products easy.



FLOOR

Our wide range of underlay products are made of combined laminated materials which include self-adhesive layers for high performance and fast installation time. **AstroBarrier®** flooring underlayments are resilient polyethylene foam products that provide unique padding, moisture and mold resistance features.



FULFILLMENT

Our **AirSpeed™** and **GeoSpeed™** systems, **Hefty Express®** mailers and **Slide-Rite®** bags, improve performance and lower total packaging costs. Pregis provides its customers products with the premium quality necessary for fulfillment and distribution; high performance packaging and flexible systems allow for a cost-effective, yet efficient method of packaging merchandise.

PRODUCE

Pregis' **Panta-Pak®** produce trays, bubble, foam and inflatable toppers provide ideal packaging for agriculture, along with our **foam interleaving and case lining**. Each product stabilizes and protects the ripest produce during packing, transport and handling.



AND MORE

Our diverse protective packaging portfolio and wide assortment of products allow our customers to meet a countless number of specialized, customized packaging needs. Below are a few examples of applications and markets that continue to benefit from Pregis' quality protective packaging.

- AEROSPACE
- AGRICULTURE/PRODUCE
- AUTOMOTIVE
- BOOK PUBLISHERS
- CHEMICAL/HYGIENE
- COSMETICS
- COMPUTERS/ PERIPHERALS
- DOORS/BUILDING MATERIALS
- ELECTRONIC COMPONENTS
- FOOD
- FULFILLMENT/MAIL ORDER HOUSE
- FURNITURE: HOUSEHOLD/OUTDOOR
- GLASSWARE/CHINA
- INDUSTRIAL EQUIPMENT & SUPPLIES
- JEWELRY
- MEDICAL/DENTAL SUPPLIES
- MILITARY/GOVERNMENT
- MOVING AND STORAGE
- PHARMACEUTICALS
- PUBLISHING
- RETAIL
- SUPPLY SPECIALISTS
- TRANSPORTATION



POPULAR BRANDS

Pregis manufactures many of the best known and trusted brands in the packaging industry. Our products cover every point on the protective packaging map. Whether it's 30 packages or 30,000 that need to get from one destination to the next, Pregis has a solution you can count on.

**AIR-KRAFT® BUBBLE-LINED
KRAFT MAILER**

AIRSPEED™ PACKAGING SYSTEMS

**ARMOR-LITE® BUBBLE-LINED
POLY MAILER**

**ASTRO-BUBBLE® RENEW™
PRE-CONSUMER RECYCLED
AIR CUSHIONING BUBBLE**

**ASTRO-BUBBLE® GREEN™
RECYCLED AIR CUSHIONING
BUBBLE**

**ASTRO-CELL® AIR
CUSHIONING BUBBLE**

ASTRO-FOAM® PE SHEET FOAM

CORNER KEEPER™ PROTECTORS

EDGEFOAM® PE PROTECTORS

**EZ® BUBBLE-OUT™
BAGS-ON-A-ROLL**

**FRIENDLY FOAM® FOAM-LINED
KRAFT MAILER**

GATOR-PAK™ MAILERS

**GEOSPEED™ PAPER
PACKAGING SYSTEMS**

HEFTY EXPRESS® MAILERS

HEFTY® SLIDE-RITE® BAGS

MICROFOAM® SHEET FOAM

MICROGUARD™ SHEET FOAM

PANTA-PAK® PLASTIC TRAYS

POLYPLANK® FOAM PLANK

PROFLEX® PROFILES

**PAD-KRAFT® MACERATED
PAPER/KRAFT MAILER**

POLY-LITE® ALL POLY MAILER

SLEEVIT® PACKAGING POUCHES

**TUFF-KRAFT® KRAFT PAPER
& REINFORCED MAILERS**



Pregis Corporation is a leading global provider of innovative protective, flexible, and foodservice packaging and hospital supply products. The specialty-packaging leader currently operates 47 facilities in 18 countries around the world. Pregis Corporation's dedication to our customers includes a broad line of packaging products and world class customer service. Our Consultative Sales Team is equipped to recommend the right packaging solution for your application.

Contact Pregis protective packaging solutions:

877.692.6163

www.pregis.com