



# microfoam<sup>®</sup>

Polypropylene Foam by Pregis

**Strong.  
Lightweight.  
Only Pregis makes  
a polypropylene  
sheet foam!**



# microfoam®

Polypropylene Sheet Foam by Pregis

Microfoam® polypropylene sheet foam has the properties to provide customized solutions for a broad range of applications.

Microfoam® protective packaging material incorporates 50,000 closed cells per cubic inch for superb cushioning, void fill, interleaving, surface protection, vapor transmission, thermal and insulation properties. Microfoam® sheet foam is a versatile material with unlimited applications across a wide range of industries. Available in sheets, rolls and laminated forms, Microfoam® sheet foam is the only low density polypropylene sheet foam product on the market.

Whatever the application, product or packaging material ... choose Microfoam® polypropylene sheet foams.



## FEATURES AND BENEFITS



VERSATILE. STRONG. DURABLE. LIGHTWEIGHT. LOW DENSITY.  
NON-ABRASIVE. ECONOMICAL. HIGHLY PROTECTIVE. SUPERIOR  
SURFACE PROTECTION. EASY TO HANDLE. EASY TO TRANSPORT.

- **High coefficient of friction** provides unequalled protection for easily scratched finishes.
- **Low density, lightweight** (half the weight of polyethylene sheet foam) make lifting or changing rolls a breeze. Also reduces labor and shipping costs.
- **Chemically inert** material won't tarnish or corrode sensitive metals.
- **Readily accepts labels and tape.** Polypropylene enables even less expensive adhesives to stick better.
- **Thermal and vapor transmission properties** make Microfoam® products the ideal material for insulating blankets and overwintering protection for plants.
- **Mildew, moisture and fungus resistant,** Microfoam® sheet foam is safe for the packing of live plants and flowers.
- **High melting point** allows Microfoam® to perform reliably from -250°F up to 250°F with a melting point of 320°F.
- **Superior flexibility** in the thicker gauges necessary for ease in handling and applying.
- **Effective insulation** against temperature extremes.
- **Outstanding breathability** enables the release of vapors while it protects against condensation and water damage.
- **Can be laminated to a number of substrates** to meet specific needs. We offer foam laminated to kraft, linerboard, non-woven, film and cohesive materials.
- **Superior buoyancy characteristics** are ideal for applications including flotation containments.



## Unlimited applications across a wide range of industries.

The list of industries enjoying the unique benefits of Microfoam® sheet foam continues to grow. Microfoam® sheet foam is quickly becoming the clear choice when competing in today's time-intensive marketplace. The following list suggests only a few of the unlimited applications of Microfoam® sheet foam across a wide range of industries:



<b>TRANSPORTATION</b>	Injection molded plastic; automotive, aerospace and nautical parts and accessories; glass and mirrors.
<b>FURNITURE</b>	Wood office and residential furniture; mirrors; wood cabinets; metal, ceramic and glass hardware.
<b>ELECTRONICS</b>	Computers; televisions; audio systems; radios; components and parts.
<b>AGRICULTURE</b>	Live plants; cold weather plant protection; overnight cut-flower shipments.
<b>CONSTRUCTION</b>	Overwintering blankets; aluminum extruded products; functional and decorative hardware; rockshield protection for buried pipelines.
<b>SO MUCH MORE</b>	Musical instruments and parts; frozen foods; medical instruments and equipment; printing, binding, fine art and gallery materials; pottery, glass and collectibles; jewelry.



## LAMINATED PRODUCTS

In addition to our standard line of sheet foam, Pregis offers customized laminated foam products for highly specialized applications in a wide variety of industries. Ask your Pregis representative about:

### Microfoam® Cohesive Laminate

A Microfoam® and film laminate is combined with a special cold seal coating that adheres to itself, leaving no residue on your product. This forms an instant, highly protective package.



- One-step seal saves time and material
- Custom sizing eliminates waste
- Light weight reduces shipping costs
- Cohesive leaves no residue
- Cohesive seal is tamper-evident
- Machine compatibility reduces labor costs
- Watertight to repel spills and protect from moisture
- Available in sheets or rolls, and printed in up to four colors
- Kraft backed on a roll is available in a dispenser box
- Cohesive Plus white film-backed foam can be perforated and is available as bags, wraps and pouches

### Orca™ Wrap

ORCA™ technology by Pregis combines foam and film to create a superior protective material

- Tough outer laminate adds tear strength and puncture resistance
- Ventilation holes add breathability to prevent condensation, mildew or moisture build-up
- Microfoam sheet protects from abrasion and light impact

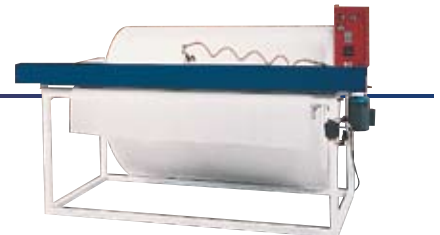


### Microfoam® Laminated Products

Microfoam® sheet foam can be laminated to printed or plain films, papers or fabric for superior durability, tear-resistance and identification. Available in rolls, sheets, bags and pouches.

## The Systems Approach

Pregis Packaging Systems are designed to keep you in control, running smoothly and increasing productivity. Our packaging systems are backed by a team of technical service representatives who ensure that your operation is always running at peak performance.



**PRODUCT PERFORMANCE COMPARISONS**

Property	Microfoam® Polypropylene Sheet Foam	Polyethylene Sheet Foams	Air Cushion Bubble	Cellulose Wadding
Abrasion	Excellent	Good	Fair	Fair/Poor
Tear	Good	Excellent	Good	Fair
Resilient	Excellent	Excellent	Good/Excellent	Poor
Water Resistance	Excellent	Excellent	Excellent	Poor
Fungus Resistance	Excellent	Excellent	Excellent	Some
Chemical Neutrality	Excellent	Good	Excellent	Some
Dust Free	Excellent	Excellent	Excellent	Poor
Thermal Efficiency	Excellent	Good	Fair	Poor
Light Weight	Excellent	Good/Fair	Good	Poor
Compression Resistance	Good	Excellent	Fair	Poor

**TYPICAL FUNCTIONAL REPLACEMENTS**

Microfoam® Polypropylene Sheet Foam	Polyethylene Sheet Foams	Air Cushion Bubble
Micropack® foam	1/32"	1/16"
1/16"	1/16"	3/32"
3/32"	3/32"	1/8" small bubble
1/8"	1/8"	3/16" medium bubble
3/16"	3/16"	5/16" medium bubble
1/4"	1/4"	1/2" large bubble
3/8"	3/8"	n/a
1/2"	1/2"	n/a

**COEFFICIENT OF FRICTION (SCALE .00 — 1.0)**

	Microfoam® Polypropylene Foam	Polyethylene Foams	Air Cushion Bubble	Paper
Lacquered Wood	0.47	0.42	0.31	0.26
Glass	0.75	0.75	0.52	0.42
Corrugated	0.35	0.28	0.31	0.41
Metal	0.60	0.42	0.30	0.40

**INSULATION RATING**

	Microfoam® Polypropylene Foam	Polyethylene Foams	Air Cushion Bubble	Fiberglass
R-Rating at 1" Thickness	3.7	3.4	2.4	3.3

**VAPOR TRANSMISSION**

	Microfoam® Polypropylene Foam	Polyethylene Foams	Air Cushion Bubble
H <sub>2</sub> O Vapor (g/100 in <sup>2</sup> /24 hr)	7.3	2.8	1.4
Oxygen (cc/100 in <sup>2</sup> /24 hr)	1,475	940	380
CO <sub>2</sub> (cc/100 in <sup>2</sup> /24 hr)	5,000	4,470	2,360
Water Absorption (lbs/ft <sup>2</sup> )	.04	.02	.04

**MELTING POINT**

	Microfoam® Polypropylene Foam	Polyethylene Foams	Air Cushion Bubble
Melting Point (°F)	320°	228°	200°

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.

Call Pregis today for more information about protective packaging solutions:

**877.692.6163**

Or visit our web site at:

[www.microfoamproducts.com](http://www.microfoamproducts.com) or [www.pregis.com](http://www.pregis.com)

