

## **Cellu-Cushion®**

Polyethylene Foam Products

Flexibility for  
Fabricated  
Films and  
Foams



## A Foam for All Occasions

As the name might suggest, Cellu-Cushion® polyethylene foam products provide excellent light cushioning protection. But cushioning is just the beginning of what you can do with Cellu-Cushion® foam. The material is highly flexible, easy to fabricate and can be custom-ordered, giving you unlimited approaches for your packaging and manufacturing needs.

### Medium Density

Cellu-Cushion® 120, 170 and 220 medium density, closed-cell sheet foams are typically used in surface protection and light cushioning packaging applications. Also available in floatation grades that meet UL-1191, ULC (Canada) and CE (Europe) specifications.

### High Density

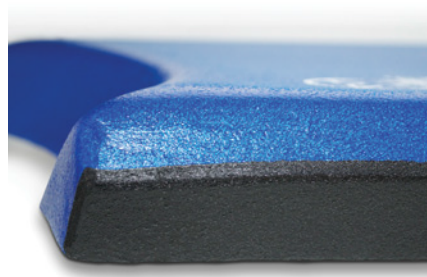
The compressive strength and smooth surface of Cellu-Cushion® high density foams are ideal for use in sporting goods, exercise equipment, toys, OEM, automotive and construction applications. Also available are “slick skin” foam products that were originally developed for the body board industry. These products are configured with a tough, smooth plastic layer laminated to one side.

### Cushioning and Surface Protection

Cellu-Cushion® foam is a non-cross linked foam that provides excellent cushioning and compression strength for light cushioning applications. The closed cell construction is tear-resistant and provides a smooth surface that, when combined with the material flexibility, provides excellent surface protection.

### Lamination for Greater Strength

Cellu-Cushion® can be combined with other materials through lamination for custom applications, including printed films, adhesive films, and other polymer types. This is a versatile material which can be laminated up to ¾" thickness using the heavier density offering.



Cellu-Cushion® can also be laminated to a thick glossy film to create a slick yet tough surface that can be printed as well, ideal for marine or recreational applications such as body boards.

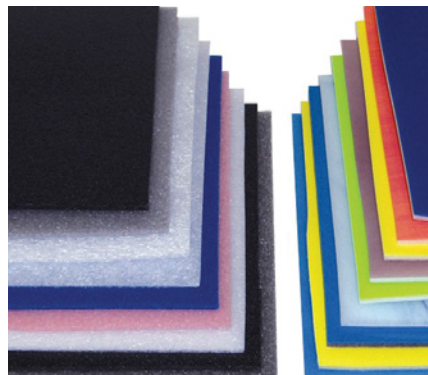
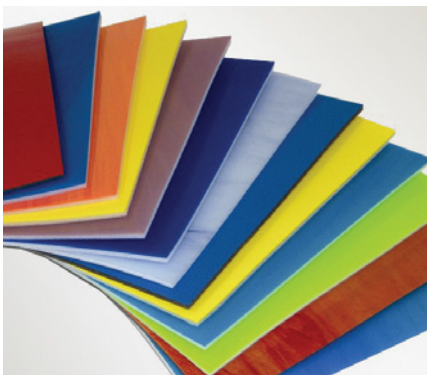
Because of its unique properties, Cellu-Cushion® foams can be used as a laminate layer on top of a thicker, rigid foam, such as Sealed Air's Stratocell® foam to create a hybrid packaging solution that features the excellent presentation qualities of Cellu-Cushion® with added strength and rigidity. This hybrid material allows for fabrication innovation, such as kiss cutting that cuts through the foam, leaving only the Cellu-Cushion® foam to provide a hinge feature.

### Customization Options

Cellu-Cushion® foam is created in rollstock form, and our facilities can slit or perforate the material to your desired width and length. Cellu-Cushion® foam is also available in a variety of colors, densities and thicknesses. Our network of world class fabricators provides additional advanced converting options.

## Typical Physical Properties

Properties	Test Method	1.2 pcf	1.7 pcf				2.2 pcf	4.0 pcf		6.0 pcf	
		1/2"	1/8"	1/4"	3/8"	1/2"	1/2"	1/8"	1/4"	1/8"	1/4"
Nominal Thickness		1/2"	1/8"	1/4"	3/8"	1/2"	1/2"	1/8"	1/4"	1/8"	1/4"
Compressive Strength (psi)	ASTM D3575-00 4.8 Suffix D	4.8 12.8	3.1 10.9	3.8 11.6	4.3 12.2	5.2 13.4	6.5 15.0	4 12	5 13	7 18	9 21
vertical @ 25% Compression Set(%)	@ 25%/50%										
Compressive Strength (psi)	ASTM D3575-00 < 20 Suffix B	< 20	< 30	< 30	< 25	< 20	< 15	< 20	< 20	19%	14%
Tensile Strength (psi)	ASTM D3575-00 39 Suffix Trhd/cmd	39 23	85 33	58 30	50 27	44 26	48 32	120 70	90 65	155 100	130 110
Elongation (%)	ASTM D3575-00 74 Suffix Trhd/cmd	74 62	70 47	86 60	70 68	79 65	80 74	110 95	100 90	110 90	115 95
Tear Resistance (lb/in)	ASTM D3575-00 7 Suffix Grhd/cmd	7 13	12 19	11 17	11 16	10 15	14 18	19 25	18 23	45 57	44 48
Density Range (lb/ft <sup>3</sup> )	ASTM D3575-00 1.1 – 1.4	1.1 – 1.4	1.5 – 1.9	1.5 – 1.9	1.5 – 1.9	1.5 – 1.9	2.0 – 2.4	3.5 – 4.5	3.5 – 4.5	5.5 – 6.5	
Water Absorption (lb/ft <sup>2</sup> )	ASTM D3575-00 < 0.1 Suffix L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1
Thermal Stability	ASTM D3575-00 < 5% Suffix S	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
Contact Corrosivity (alum. plate )	Method 3005 FEDSTD. 101	None	None	None	None	None	None	None	None	None	None
Static Decay (anti-static grade )	EIA Std. 541 Appendix F	< 2 sec	< 2 sec	< 2 sec	< 2 sec	< 2 sec	< 2 sec	< 2	< 2	< 2	< 2
Surface Resistivity (anti-static grade )	EIA Std. 541 Section 4.3	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>	1.0 × 10 <sup>9</sup> – 1.0 × 10 <sup>12</sup>
Thermal Conductivity (k-value) (BTU-IN/HR-FT <sup>2</sup> -°F)	ASTM C518-91	0.35–0.42	0.35–0.42	0.35–0.42	0.35–0.42	0.35–0.42	0.35–0.42	0.40–0.48	0.40–0.48	0.40–0.48	0.40–0.48
Thermal Resistance (r-value) (HR-FT <sup>2</sup> -°F / BTU)		1.30–1.60	1.30–1.60	1.30–1.60	1.30–1.60	1.30–1.60	1.30–1.60	2.09–2.48	2.09–2.48	2.09–2.48	2.09–2.48



## Partners in a Better Tomorrow



### Reduce, Reuse, Recycle

Sealed Air makes every effort to ensure that waste packaging does not end up in a landfill. Cellu-Cushion® products are non-crosslinked, meaning they can be recycled in our closed loop system. Our packaging design and development centers will work with you to make sure you get a package that has maximum protection with minimum material. All Cellu-Cushion® products can be reused multiple times before experiencing degradation in their protective qualities.

### We Have Designs on Serious Source Reduction

With over 30 Packaging Design and Development Centers worldwide, Sealed Air is committed to being your partner in packaging by designing cost-efficient packaging.

Our services include design, prototyping and testing, as well as a network of trusted fabricator partners that can deliver what you need, time and time again.

### Opening Doors with Closed Loop Recycling

In order to verify our recycled resin is of the highest quality, Sealed Air has implemented a Closed Loop Recycling system. We have invested in collection systems that reclaim scrap material from our network of World-Class fabricators.

This allows us to reduce the amount of our material that ends up in a landfill, while giving us greater control of the sourcing and quality of our materials.

To learn more visit [www.recyclefoam.com](http://www.recyclefoam.com)

## Package Design and Development Centers Capabilities



### Solution-Based Design and Development

Sealed Air's Package Design and Development Centers exist to achieve one purpose: to help our customers find a high-performance, cost-effective packaging solution. With dedicated packaging engineers on staff in our over 30 ISTA-certified labs worldwide, we are ready to listen and deliver.

Our goal is to help you find a cost-effective solution to your packaging needs, and provide you with the most efficient package possible.

### Five Step Design Process

Outstanding design is a direct result of outstanding preparation. Our Five Step Design Process ensures that we are prepared to provide the best solution that includes:

- Understand the shipping environment
- Define product fragility
- Select the proper cushioning material
- Design the prototype package
- Verify the package through testing



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**Our Products Protect Your Products®**

### Sealed Air Polyethylene (PE) Foam Sustainability

We are committed to increase sustainability by enhancing the performance of our PE foam products with decreased use of natural resources in manufacturing by increasing recycled content. Our PE foams are classified as #4 low-density PE (LDPE) material and can be recycled in LDPE recycling systems, including our Closed Loop Recycling program. Learn more at [recyclefoam.com](http://recyclefoam.com).

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