



Other uses of Flexible Foam

While the applications mentioned in this brochure are market specific, American Excelsior Company and flexible foams are found in hundreds of other uses including:

- Gaskets
- Acoustical Filters
- Protective Cushioning
- Novelty
- Promotional
- Cosmetic Display

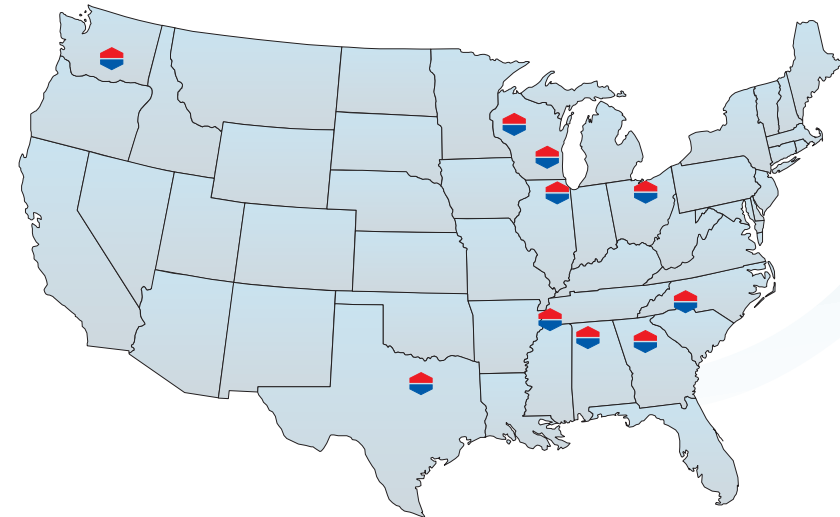


Processes Include:

- Injection molding of flexible urethane
- Compression molding of crosslink foams
- Flame lamination
- Foam-to-fabric compression molding
- Die-cutting
- CNC profile cutting
- Foam to corrugated
- Convoluting (Egg Crate Foam)
- Water Jet Cutting
- Special Laminations

Products Include:

- Polyurethane Foams
- Polyethylene Foams
- Crosslink Polyethylene
- EVA Foams
- Neoprene Foams
- Visco-Elastic (Memory foam)

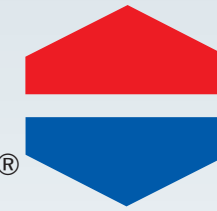


10 Locations to serve you!



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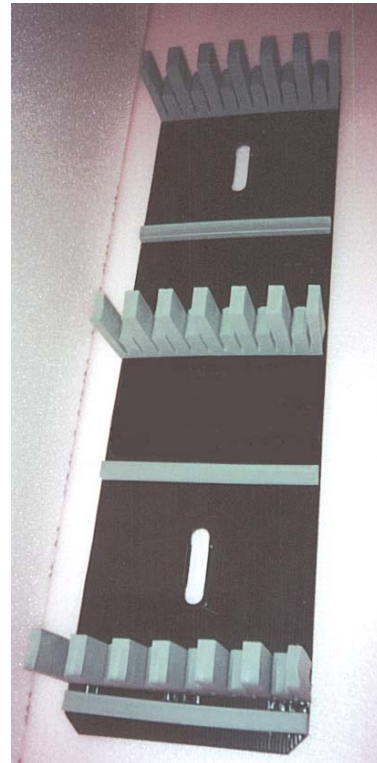
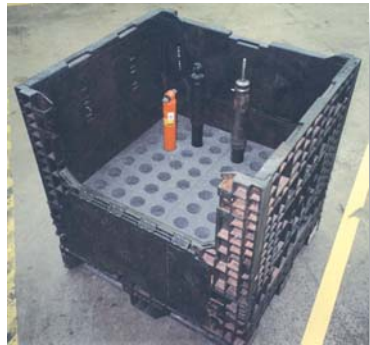
American Excelsior Company®
Flexible Foams Division





Automotive

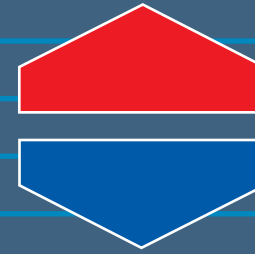
Opportunities for use of flexible foam products in automotive related applications are numerous. American Excelsior products can be found not just within the vehicle itself, but they are also found in the assembly plant protecting painted or polished parts or they can be used to protect trim parts when being shipped around the globe.



Molded urethane foams can be used in seating applications as well as arm rests and other comfort related uses. Other fabricated flexible foams can be found in headliners, vibration pads and acoustical applications.

If packaging or surface protection is needed, we offer an extensive line of flexible foams to assure that the right product is being designed to fit the needs of the application. As an example, polyurethane foams are generally used for light packaging applications or on non-returnable packaging. On the other hand, crosslink polyethylene foams with Class "A" Surface Protection are generally the better choice for use on returnable totes or where surface protection of trim parts is a concern.

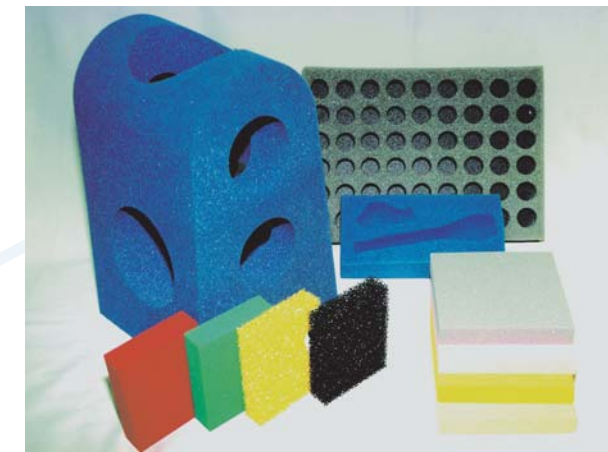
If your application requires comfort, noise reduction or you simply need to move products without damage, American Excelsior Company can help assist in a designed solution for your operation.



Medical

Patient comfort and support are two key elements where the medical industry relies on flexible foams to aid in patient healing and rehabilitation efforts. And since there are many critical factors to consider when choosing the right foam, it is equally important to choose the right supplier.

American Excelsior Company is not limited to one or two types of flexible foams as we know and understand the importance of designing the right product to fit the needs of the application for which it is being used. In some cases, fabricated urethane foam may be the perfect solution for a basic comfort application, but there are times when engineered molded foams may provide the ultimate cushion that you are looking for.



Today, you will find our foams used in mattresses, wheelchair pads, positioning pads, bed toppers, cervical collars, and in many cases, to protect delicate medical instruments during transit.

If you would like to learn more about specialty foams and how they can be designed to meet the demands of your medical application, contact the nearest location to arrange a visit or request samples.



Not only do we fabricate and mold flexible foams, we can also produce a wide variety of finished parts including PVC coatings where a durable or washable finish is needed, or we can flame-laminate fabrics to closed-cell foam which can then be compression molded. Not only does this unique process provide a finished part without machine stitching, it also reduces seams that can collect contaminants.





Marine

American Excelsior Company has been designing and fabricating flexible foams for the marine industry for over 30 years, and our operational understanding of this market has proven to be a valuable resource for the customers we serve.

Our flexible foam products are used in a wide variety of marine applications from seating and bedding mattresses all the way to acoustical and flotation. Because of this, we are able to work with your design teams from bow to stern to assure that the right product solutions are being offered while your performance demands are also met.



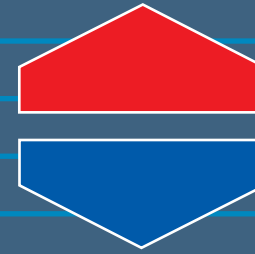
Our marine foam offerings include:

- Urethane Foams in a variety of densities for seating, comfort and protection
- Molded Crosslink Foams for swim pads and other outdoor applications
- Mattresses (Latex and Polyurethane Foams)
- Acoustical Foams to help reduce noise and vibration
- Foams with Mylar for engine areas to help reduce heat and reflection

Comfort and design are two critical characteristics in the choice of flexible foams for the marine industry and our people are the best in the business at understanding that.

But it doesn't stop there, our people work with those individuals on the floor that use and install our products to help them understand the finished part. This partnership also helps us better understand systems flow so that we can offer non-fabricated solutions such as "kit-packs". American Excelsior developed the kit-pack many years ago which allows pre-packaged foam kits to be opened during the production stages of a watercraft to reduce multi-handling of the various foam components.

In addition to our wide variety of flexible fabricated foams, we also have a unique process where we can flame-laminate marine vinyls to closed-cell foams and then compression form them into a finished part. In many cases, the entire gluing and machine stitching process can be eliminated.



Packaging

Flexible foams are used extensively in the packaging industry for their ability to provide bracing while still being able to absorb shock or reduce vibration.



With our extensive array of engineered foams, our goal is to work closely with the customer to assure that the expected demands are being met, while still meeting the price goals that may be in place. No single product can meet each and every application and our people are positioned to design from a "product neutral" process. This assures that we consider the customer's demands in the very early stages of the evaluation process, and we offer options that allow for the ultimate product choice comparing them to provide product selections to maximize performance and value. If you want to review your current application, a call to one of our representatives will help confirm if you have the right product for the right application.

You will find our packaging foams in many forms such as:

- End-Caps
- Convoluted anti-static cushioning
- Velvet foam for display applications
- Dunnage inserts
- Separator pads for vibration control
- Foam to corrugated
- Case inserts





Furniture, Bedding and Seating

One of the first applications for flexible foams was its use for personal comfort such as furniture cushions and bedding mattresses, replacing rubberized hair and cotton. American Excelsior Company was among the first fabricators to introduce flexible foam fabrication techniques for these markets back in the late 1950's.

Today, American Excelsior is using this history, success and expertise to be a leader in understanding the demands of the finished product and the consumer challenges put on the manufacturers of the products they market.



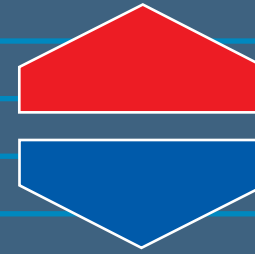
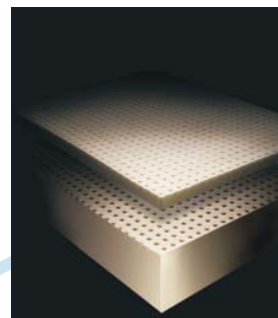
With design teams, superior service, and superior quality, our people know and understand these markets and the manufacturing process of our customers. All of this allows us to be better partners at providing solutions to assure that the demands of the finished products are being met.

Many of our customers have been with us for a long time (some over 30 years), and there is a reason for this. They believe in this company and the products we produce, and they count on us to provide valuable expertise in the markets where they compete.



To meet these demands, you cannot offer one product and try to make it fit every application, so American Excelsior offers a variety of products which allows our customer the opportunity to concentrate on making the ultimate product choice for their application. Some of these products include:

- Fabricated Polyurethane Foams in a variety of densities and IFD's
- Molded Flexible Foams for high quality seating applications
- Latex Foams for superior bedding applications
- Packaging foams to protect finished products or parts



Recreational

This is an application area where flexible foams play an important part in providing comfort and protection, and choosing the right foam is just as important as choosing the right supplier.

The recreational market has high performance demands for shock, comfort, and resiliency, and while there are a variety of flexible foams that meet these demands on the market, designing with product and fabrication knowledge is an area of expertise for American Excelsior Company.

In many cases a high density polyurethane may work for an application and may even offer pricing advantages; however, repetitive impacts may affect long-term performance making crosslink foams the better solution.



Today, you can find these products used in applications such as:

- Protective Headgear
- Shoulder Straps
- Camping Pads
- Crash Pads
- Protective Athletic Padding
- Helmets



One of the things that make us stand out as a supplier in the recreational market is our ability to help design and develop new products, or in some cases improve the current designs to assure that the performance goals of the product are being met. Applications and products to support this effort include:

- Molded Flexible Foams
- Fabricated Foams in many colors, densities and ILD's
- Crosslink Foams for high impact protection
- Molded Crosslink Foams made to customer's specifications
- Foam-to-Fabric molding for superior adhesion, eliminating stitching

