

Foam Villa

GLOBAL PU EXPERTS

Your **Global Source** for
Fire Retardant Foam Solutions



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www.foamvilla.com

Fire Retardant (FR) Foam Solutions



At **Foam Villa**, we specialize in supplying **fire retardant flexible foams** designed to meet stringent safety regulations across global markets. With strong technical expertise and global supplies capabilities, we support **B2B and OEM customers** with certified FR foam solutions tailored to specific applications, performance needs, and regulatory standards.

Certified Fire Safety Standards

Our fire-retardant foams are engineered to comply with internationally recognized flammability standards, ensuring safety without compromising comfort, durability, or performance. We offer the following standard-compliant foams:

1. CA-117 FR Foam: Designed to meet California Technical Bulletin 117 requirements for upholstered furniture and filling materials.

2. FMVSS-302 FR Foam: Compliant with U.S. Federal Motor Vehicle Safety Standards for automotive interior materials.

3. UL-94 FR Foam: Tested as per Underwriters Laboratories UL-94 standards for evaluating material flammability.

4. BS-5852 FR Foam: Tested according to British Standard BS 5852 for fire safety in upholstered furniture and related products.

5. TRIS-Free FR Foam: A safer, environmentally conscious alternative, free from Tris (TDCPP), designed to address health and environmental concerns while maintaining fire resistance.

Wide Range of Applications

Our FR foams serve industries where **fire safety, comfort, and performance** are equally critical:

- **Furniture & Upholstery:** Sofas, chairs, upholstered seating
- **Bedding & Comfort Products:** Mattresses, mattress toppers, cushions, pillows
- **Automotive & Transportation:** Vehicle seating, headrests, armrests, interior trim, commercial vehicles
- **Medical & Healthcare:** Medical devices, hospital bedding, patient support products
- **Aerospace & Marine:** Aircraft interiors, marine upholstery
- **Children's Products:** Baby cushioning, safe play and seating products
- **Acoustic & Insulation:** Soundproofing, acoustic insulation, packaging
- **Industrial Uses:** Flame lamination, electronics enclosures, insulation solutions

Custom Development for B2B Customers

At Foam Villa, we go beyond standard offerings. We are equipped to **develop FR foam solutions tailored to your end-customer requirements**, balancing **fire safety, comfort level, durability, and price bracket**. Our technical team works closely with customers to create application-specific products aligned with both regulatory and commercial goals.

Your Trusted FR Foam Partner

With years of industry experience and a strong global network, Foam Villa delivers **certified, high-performance fire-retardant foams** reliably to your doorstep. Focused exclusively on B2B and OEM partnerships, we ensure consistency, compliance, and scalable supply—helping you build safer, market-ready products with confidence.

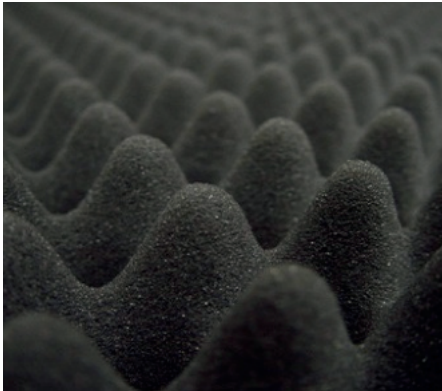


Technical Foam Range

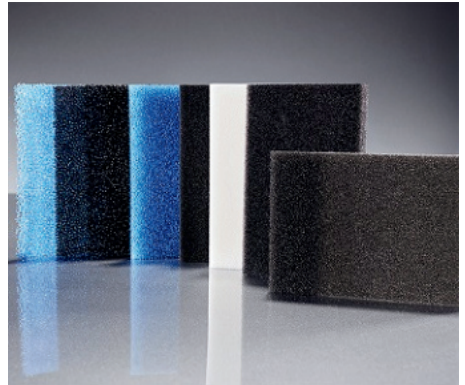
In our Technical Foam section at Foamvilla, we take pride in our meticulous formulation and engineering of flexible foams to meet advanced and specific needs. Crafted with precision, these foams feature enhanced properties including improved resilience, durability, pore porosity index, fire-retardant capabilities, and other unique performance characteristics tailored to specific applications. Whether used in automotive, medical, or acoustics industries, our Technical Flexible Foams represent innovation and excellence, catering to a wide range of diverse and specialized requirements.

Common Density: 10 to 150 Kg/m³

Common Applications: Acoustics, Filtration, Producing Fire Retardant products, Extra support, and long-life products.



Acoustic Foam



Filter Foam



Fire Retardant Foam



Memory Foam

Fire Retardant Foam

Fire retardant flexible foam is a specialized type of foam material engineered to inhibit the spread of fire and reduce the risk of combustion. Here are some key details about fire retardant flexible foam:

1. **Composition:** Fire retardant flexible foam is typically made from polyurethane or polyester materials, which are treated with fire-retardant chemicals during the manufacturing process.
2. **Compliance with Standards:** Fire retardant flexible foam is designed to meet industry-specific fire safety standards and regulations.
3. **Safety Considerations:** Fire retardant flexible foam helps mitigate the risk of fire-related incidents by slowing down the ignition and combustion process. However, it is essential to note that fire retardant foam does not make materials completely fireproof. It provides valuable time for occupants to escape and for firefighting measures to be implemented.
4. **Durability and Performance:** Fire retardant flexible foam retains its durability and performance characteristics while offering enhanced fire resistance.

Applications on Foam Standard Wise:

CA-117 FR Foam: Manufacturing Upholstery products, Baby Cushioning products, Beds, Flame Lamination.

UL-94 FR Foam: Automotive Interiors, Furniture and Upholstery, Electronics Enclosures, Medical Devices, Aerospace Applications, Marine Applications, Consumer Products.

FMVSS-302 FR Foam: Vehicle Seating, Headrests and Armrests, Interior Trim, Soundproofing and Insulation, Commercial Vehicles.

BS-5852 FR Foam: Upholstered Furniture, Mattresses and Mattress Toppers, Cushions and Pillows, Seat Pads and Cushions, Automotive Interiors, Medical and Healthcare Products & Soundproofing and Acoustic Insulation.

Tris Free FR Foam: Furniture, Bedding and Mattresses, Children's Products, Automotive Interiors, Medical Devices and Healthcare Products, Acoustic Insulation, Packaging.

BS-5852 STANDARD FR FOAM

Product Code:- FV-Fire Retardants-BS

BS 5852, a British Standard, sets forth fire safety criteria for upholstered furniture, encompassing versatile foam utilized across diverse applications. Our compliant Flexible foam undergoes stringent testing to evaluate its ignitability and flame-retardant features, guaranteeing adherence to safety regulations.



Flexible foam meeting BS 5852 standards finds applications in a wide range of industries and products where fire safety is paramount. Some common applications include: Upholstered Furniture, Mattresses and Mattress Toppers, Automotive Seating, Aircraft Interiors, Marine Upholstery, Medical and Healthcare Products.



UL-94 STANDARD FR FOAM

Product Code:- FV-Fire Retardants-UL

UL 94, developed by Underwriters Laboratories (UL), is a standard used to assess the flammability properties of materials. When mentioning "UL 94 standard flexible foam," it denotes that the flexible foam material has been tested according to UL 94 standards to evaluate its flammability characteristics.

FMVSS-302 STANDARD FR FOAM

Product Code:- FV-Fire Retardants-FMVSS

When referencing "FMVSS 302 standard flexible foam," it indicates that the flexible foam material passes flammability test set by United States Federal Motor Vehicle Safety Standards for the flammability of materials used in the interior of motor vehicles.

Common Applications: Automotive seating, Headliners and Interior Panels.



CA-117 STANDARD FR FOAM

Product Code:- FV-Fire Retardants-CA-117

CA-117 refers to California Technical Bulletin 117, which sets flammability standards for upholstered furniture and certain filling materials. When referring to "CA-117 flexible foam," it indicates that the foam material has undergone testing and meets the flammability requirements outlined in California Technical Bulletin 117.

Common Applications: Upholstered Furniture, Mattresses and Mattress Toppers, Medical and Healthcare Products, Marine Upholstery and Aircraft Interiors.

TRIS-FREE FR FOAM

Product Code:- FV-Fire Retardants-TF

"Tris free foam" refers to foam materials that are free from Tris, which is short for Tris(1,3-dichloro-2-propyl) phosphate, a chemical flame retardant having concerns about its potential health and environmental impacts. Tris-free foam offers a safer and more environmentally friendly alternative to traditional foam products that contain potentially harmful flame retardant chemicals.

Common Applications: Upholstered Furniture, Mattresses and Bedding Products, Medical and Healthcare Products and Children's Products.



Serving the World's Foam & Allied Needs

- From the World, For the World



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The Industry Won't Wait. Why Should You?

Stay ahead of PU foam News, Trends, and Innovations—join our growing global PU business community today!

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