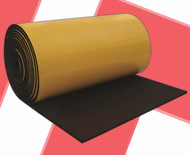
Industrial solutions for heat and sound insulation

EMGA METAL

Our Processes



Lamination

Materials with different thicknesses, including Eva, Physical PE (IXPE), Chemical PE (XPE), and EPDM, are laminated using single or double-sided tape, employing either hot or cold lamination methods. The lamination process occurs in a 1000 mm wide format.

Kiss Cutting

It involves shaping the sponge laminated with single or double-sided tape without cutting the underlying protective tape.

Die-Cutting

Raw materials with varying thicknesses are precisely cut into desired shapes and patterns, with or without adhesive backing, according to customer preferences.

Slitter Cutting

Sponges such as EVA, EPDM, or Polyethylene, which have been laminated and wound into rolls, can be slit into lengths up to a maximum of 1700 mm, widths as narrow as 5 mm, and a maximum roll width of 400 mm. Additionally, based on customer requirements, different widths can be slit from the same roll.

Our Products

EPDM Foam

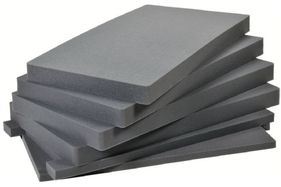
Our product, with options ranging from 2-30 mm in thickness and 80 kg/m³ to 200 kg/m³ in density, serves as an ideal solution for a wide range of sealing applications. It boasts high heat resistance and low conductivity, making it suitable for various insulation needs. Its exceptional durability against weather conditions positions it as the preferred insulation material in industries such as automotive, appliances, construction, machinery, and HVAC systems.

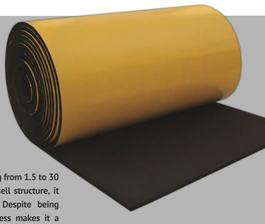
Additionally, it is noteworthy that our product is antibacterial, ensuring a hygienic and safe environment.

IXPE FOAM

IXPE, or Cross-Linked Physical PE Foam, features thicknesses ranging from 1 to 10 mm and various density options. Its smooth surface, outstanding impact absorption properties, long-lasting structure, and ease of application make it a preferred choice in industries such as automotive, as well as white goods, electronics, HVAC, medical, and packaging.

IXPE foam is highly regarded for its cross-linked structure, providing excellent durability and reliability in demanding applications. Whether it's safeguarding delicate electronic components or enhancing the safety features in automotive manufacturing, IXPE foam delivers dependable performance across diverse sectors.



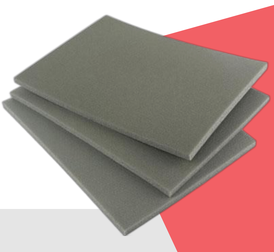


EVA Foam

EVA, also known as Ethylene Vinyl Acetate, is available in thicknesses ranging from 1.5 to 30 mm and densities between 75 kg/m³ to 120 kg/m³. Thanks to its closed-cell structure, it exhibits exceptionally low thermal, water, and moisture conductivity. Despite being lightweight, it possesses a high load-bearing capacity. Its cost-effectiveness makes it a sought-after product in various industries.

It finds extensive use in the shoe industry due to its excellent load-bearing capacity, as well as in the glass, packaging, and advertising sectors. EVA is also commonly employed in the production of toys and sporting goods.

Furthermore, it is applied in other industries such as automotive, appliances, and HVAC systems.



XPE Foam

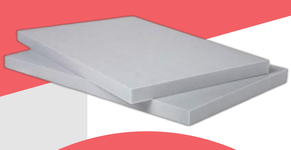
XPE, or Cross-Linked Chemical PE Foam, offers thickness options ranging from 3 to 80 mm and a variety of densities between 27 kg/m³ to 180 kg/m³. Renowned for its outstanding performance in thermal and sound insulation, high impact resistance, durability, and ease of application, XPE foam is widely used in the packaging industry.

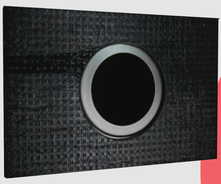
Its exceptional vibration-damping capabilities make it a valuable component in quieting industrial machinery and compressors. Furthermore, XPE foam is applied across industries including automotive, white goods, construction, electronics, and HVAC, thanks to its versatility and reliability.

Melamine Foam

With its open-cell structure, lightweight density of 9 kg/m³, exceptional sound absorption, and low thermal conductivity, this foam finds widespread use in the automotive and marine sectors. It is especially valued for enhancing water-oil repellency and heat resistance in heating and cooling systems when laminated with aluminum foil.

Additionally, it serves the construction industry, where it is employed in the creation of acoustic rooms and spaces designed for superior sound quality and insulation.





Membrane

Membranes are insulation materials applied to surfaces that are constantly in contact with water, such as roofs, concrete blocks in flooring, and similar structures, to prevent water infiltration. They typically consist of asphalt or bitumen and can be reinforced with glass fiber mats or polyester carriers.

When laminated with double-sided tape, they exhibit excellent sound-absorbing properties, making them an effective choice for sound insulation applications.

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