PLASTIC MATERIAL

Thermal insulation, sound insulation, air ducts, storage trays, bumpers, gaskets

In the automotive and naval sector, cross-linked expanded polyethylene is used in the manufacture of technical and functional components, such as coatings for air ducts, storage trays, bumpers and gaskets. The combination of lightness, flexibility and absorption capacity makes it ideal for the improvement of acoustic comfort, protection and component integration.
Feinrohren products are among the most versatile materials for the manufacture of sun visors, inner door panels, trays, rear-view mirrors, anti-vibration components, gaskets and more.

Application sectors

Automotive
Naval

Custom solutions

Tailor-made solutions developed through couplings and machining for dedicated thermo-acoustic performance.

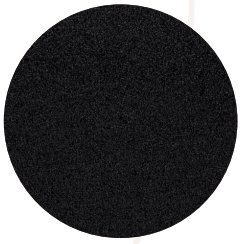
Coatings



HD-Type / 80 kg/m³ / 4 mm
Air ducts



HD-Type / 130 kg/m³ / 4 mm
Door guards



HD-Type / 90 kg/m³ / 3 mm
Boot liners



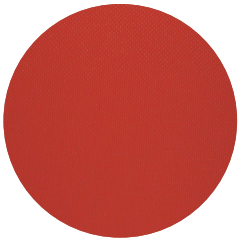
N-Type / 40 kg/m³ / 10 mm
Floating pipes



N-Type / 50 kg/m³ / 5 mm
Sun visors



Soft-Type / 30 kg/m³ / 10 mm
Anti-vibration Fillers



FR Type / 30kg/m³ / 10mm + adhesive layer
Adhesive bumper bands



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FEINROHREN GROUP

PLASTIC MATERIAL

Thermal insulation, impact sound insulation, scratch resistance, gaskets, protective elements

In the construction sector, cross-linked expanded polyethylene is used in sub-floors, attics and technical layers for thermal insulation, impact sound insulation and surface protection. Its properties improve comfort and protect against shock, wear and humidity. Feinrohren polyethylene solutions offer closed-cell materials available in a variety of densities and configurations, including paired or adhesive, ensuring versatility and reliable performance over time.

Application sectors

Construction

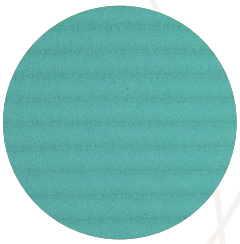
Custom solutions

Tailor-made solutions developed through couplings and machining for dedicated thermo-acoustic performance.

Coatings



N-Type / 30 kg/m³
/ 5 mm
Impact sound insulation mattress



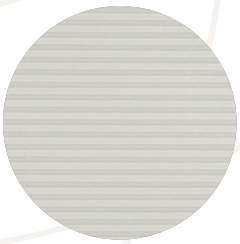
Soft-Type / 30 kg/m³
/ 8 mm
wave profile
Sound insulation



N-Type / 30 kg/m³
/ 5 mm
adhesive bands
Perimeter bands



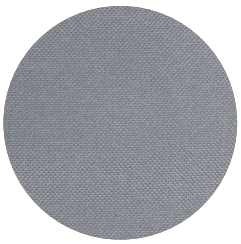
N-Type / 30 kg/m³
/ 5 mm
+ polyester / wadding fibre
Insulation under screed



N-Type / 30 kg/m³
/ 5 mm
+ PE film
Thermal insulation



N-Type / 30 kg/m³
/ 3.5 mm
adhesive bands for joints
Insulating tapes and joints



N-Type / 30 kg/m³
/ 5 mm
+ metallic PE film
Scratch-resistant coatings



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PLASTIC MATERIAL

Thermal insulation, sound insulation

In the energy sector, cross-linked expanded polyethylene is used for thermal and acoustic insulation in components and systems where it is essential to ensure operational continuity and protection over time. Feinrohren polyethylene solutions offer closed-cell foam materials available in a variety of densities and configurations, including paired or adhesive, suitable for applications in the energy sector. The properties of the material ensure resistance to external agents, durability and constant performance even in demanding operating conditions.

Application sectors

Energy

Custom solutions

Tailor-made solutions developed through couplings and machining for dedicated thermo-acoustic performance.

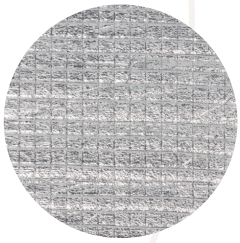
Coatings



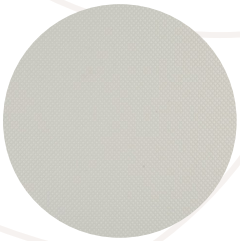
Soft-Type / 30 kg/m³ / 10 mm
Gaskets



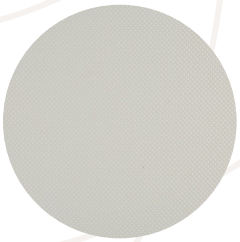
HD-Type / 80 kg/m³ / 5 mm
Thermoformed shells



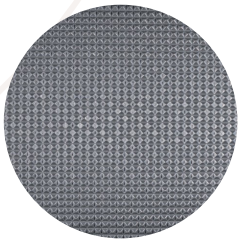
N-Type / 30 kg/m³ / 5 mm
+ metallic reflective film
Thermal insulation



Bs2d0-Type / 30 kg/m³ / 7 mm
coated copper tube
Anti-condensation insulation



Soft-Type / 30 kg/m³ / 3 mm
+ adhesive layer
Foam tapes and sealants



CL1-Type / 30 kg/m³ / 10 mm
+ metallic embossed PE film
Vapour barrier



N-Type / 30 kg/m³ / 3 mm
+ adhesive layer
Damp-proof course



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PLASTIC MATERIAL

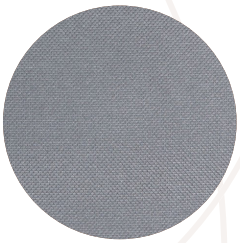
Thermal insulation, sound insulation, anti-condensation, vapour barrier, pipe lining

In the HVACR sector, cross-linked expanded polyethylene is used for the insulation of pipes and plant components, helping to improve energy efficiency and the comfort of environments.
Thanks to the closed-cell structure, it guarantees high thermal and acoustic insulation performance, as well as an effective anti-condensation and vapour barrier action, essential to prevent dispersals and moisture phenomena. Used as a coating for HVAC pipes and systems, the material offers lightness, strength and ease of installation, adapting to a variety of application configurations.

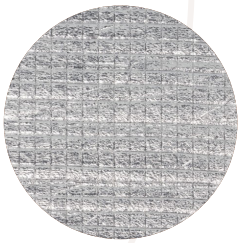
Coatings



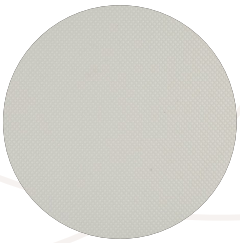
Bs2d0-Type / 30 kg/m³ density / 10 mm
Air ducts



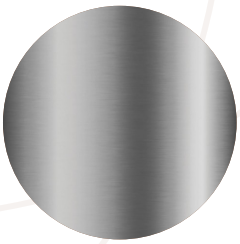
FR-Type / 30 kg/m³ / 3 mm + adhesive layer/metallic embossed
Insulation tapes



FR-Type / 30 kg/m³ / 15 mm + adhesive layer/metallic reflective film
Chilled water tanks



Bs2d0-Type / 30 kg/m³ / 11 mm + PE film
Anticondensation



Bs2d0-Type / 30 kg/m³ / 7 mm + aluminium foil
Silver Coated copper tube



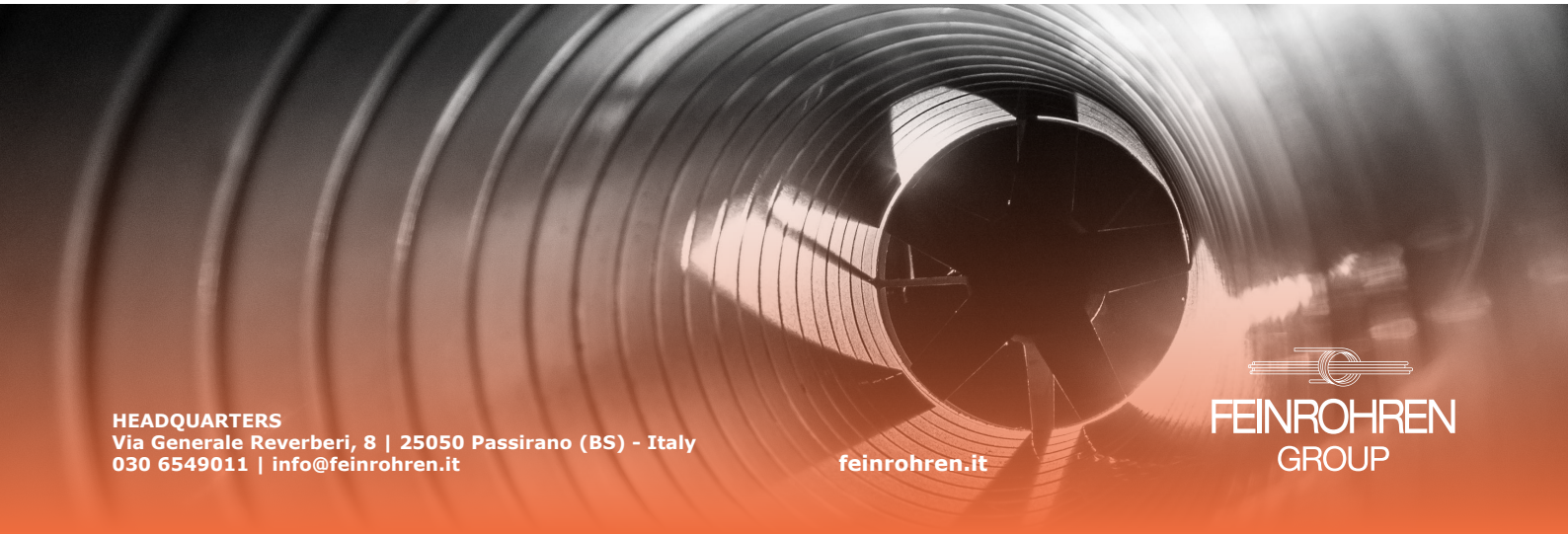
N/BS2D0-Type / 30 kg/m³ / 3 mm + acrylic coating
Insulation panels

Application sectors

HVACR

Custom solutions

Tailor-made solutions developed through couplings and machining for dedicated thermo-acoustic performance.



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PLASTIC MATERIAL

Sports & Leisure

Cross-linked expanded polyethylene and other expanded materials are ideal technical solutions for sports, technical clothing and leisure. Thanks to their lightness, resilience, breathability and ability to absorb shocks, they improve comfort, durability and performance of footwear, padding, sports equipment, slippers and packaging.
Manufactured with advanced technologies, it is PVC- and VOC-free, REACH and RoHS compliant, and available with functional treatments (antibacterial, conductive). Its structure allows customisations such as perforation, embossing, die-cutting and coupling with fabrics or technical films. The thermoformability makes it possible to create complex geometries with high precision, suitable for both prototyping and mass production.
Available in sheets or rolls, with densities from 20 to 250 kg/m³ and thicknesses from 2 to 120 mm, it is offered in standard colours (white, black, grey) or on request.

Additional information

- Thermoformable
- Perforable
- Can be coupled with fabrics and adhesives
- Antibacterial and conductive version available

Certifications on request

Formats

Sheets (max 1500 × 2000 mm)

Rolls (width up to 1800 mm, depending on the density)

Custom couplings

Feasibility studies for the lamination of multilayer materials, tailored to client requirements for items that must meet specific mechanical, comfort, and performance criteria.







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FEINROHREN GROUP

PLASTIC MATERIAL

Thermal insulation, anti-condensation, protections

In the thermoforming sector, cross-linked expanded polyethylene is used to create shells and shaped components for thermal insulation, condensation prevention and system protection. The closed-cell structure reduces energy losses and prevents moisture absorption, improving the efficiency and durability of the components. The Feinrohren thermoformed solutions are custom designed to ensure optimal adhesion to components and to eliminate thermal bridges, while ensuring mechanical protection from shocks and external agents. The use of high performance cross-linked expanded polyethylene means being able to obtain reliable, durable products that are perfectly adapted to application requirements.

Application sectors

Thermoforming

Certifications

UL 94: HF-1

FMVSS 302

Classes Bs2d0, Bs1d0

Custom solutions

Tailor-made solutions developed through couplings and machining for dedicated thermo-acoustic performance.



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