

Expanded polystyrene foam (EPS) is a closed-cell insulation material that is manufactured from expanded polystyrol granulate and foamed up into blocks. EPS is used as insulation material in construction industry.

Application:

EPS insulation materials can be manufactured for just about any application in the construction industry. Their economic price and ease of processing mean that EPS insulation materials are widely used and their share of the market reflects this. Manufactured from solid foam blocks, our profiles for thermal insulation, in the form of round or square profiles, or special profiles and special preformed parts tailored to customer drawings, have many industrial applications, as well as applications in the construction industry proper. We can manufacture and supply preformed parts tailored to your drawings at short notice.

EPS has the following typical advantages:

- EPS has good thermal insulation properties
- EPS is economic
- EPS is easy to process and apply
- EPS is resistant to damp
- EPS cannot rot and is resistant to vermin
- EPS does not represent a health hazard once installed
- EPS is ecologically tolerable to a large extent where CO₂ foam-based products are used

Technical data:

Characteristics

Material	EPS 035 white, pressure resistant model	
Fire behaviour	Building Material Classification B1	ac. to DIN 4102 – 1
	Fire rating E	ac. to EN 13501 – 1
Flexural strength	≥ 250 kPa	ac. to EN 12089
Compression strength at compression 2 %	≥ 60 kPa	ac. to EN 826
at compression 10 %	≥ 200 kPa	ac. to EN 826
Dimensional stability under standard atmosphere	± 0.5 %	ac. to EN 1603
Deformation under pressure load and thermal load	≤ 5 %	ac. to EN 1605
Thermal conductivity	λ = 0.035 W/m·K	
Thermal conductivity group	035	

Notes:

Our EPS material is chemically and biologically neutral and CFC and HCFC free.

Storage note:

Shield from sunlight (UV rays).

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

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