

Polyfoam Refrigerated Vehicle Board



Thickness (mm)	Length (mm)	Width (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Tolerance (mm)	Nominal density (kg/m ³)
50	2400	600	0.033	1.50	.+/-1.0	34
75	2400	600	0.033	2.25	.+/-1.0	34
100	2400	600	0.033	3.00	.+/-1.0	34

All dimensions are nominal. As the material is often viewed as a component the tolerances need to be specified, both on thickness and dimensions, to ensure optimum stability.

Performance

The thermal conductivity of Polyfoam Refrigerated Vehicle Board is 0.033W/mK.

The compressive strength of Polyfoam Refrigerated Vehicle Board is 400 kPa.

Benefits

- High compressive strength
- Highly resistant to water absorption
- Grooved board to assist adhesion to other materials.
- Structurally stable in the long term
- Global Warming Potential <5

Certification

- Environmental Product Declaration
- BES 6001: Responsible Sourcing of Construction Products

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POL-TD-11-01

Description

Polyfoam Refrigerated Vehicle Board is a rigid extruded polystyrene (XPS) board with a Global Warming Potential (GWP) of less than 5 and Zero Ozone Depletion Potential (ODP). Polyfoam Refrigerated Vehicle Board is lightweight, has excellent structural strength and is grooved to assist adhesion to other materials.

Application

Polyfoam Refrigerated Vehicle Board is suitable for thermal insulation for a wide variety of refrigerated vehicle applications.

Durability

The continuous service temperature limits of Polyfoam Laminating Board are -50 to +70° C.

Compressive strength

Polyfoam Refrigerated Vehicle Board is highly resistant to compression and can withstand both occasional and long term static loads. Load bearing construction elements should be designed to adequately support the combination of imposed and dead loads without creating excessive deflection.

Moisture absorption

The moisture absorption of Polyfoam Refrigerated Vehicle Board is 0.7% by volume when tested in accordance with EN 12087.

Moisture resistance

Polyfoam Refrigerated Vehicle Board is resistant to moisture absorption and can be installed in standing water, high humidity factory conditions or up against wet surfaces with negligible impact on the performance of the product.

Environmental

Polyfoam Refrigerated Vehicle Boards represent no known threat to the environment and have Zero Ozone Depletion Potential (ODP) and a Global Warming Potential (GWP) of less than five. Polyfoam Laminating Boards are non bio-degradable and 100% recyclable.

BRE Global have approved and issued Environmental Product Declarations (EPD's) for the Polyfoam range of products. This globally recognised standard enables construction companies and specifiers to gain independent verification of a product's environmental credentials.

Responsible Sourcing

Polyfoam XPS Limited complies with requirements of BES 6001:issue 3.1, Polyfoam XPS Limited have achieved a performance rating of 'Pass' for the Polyfoam product range.

Handling and storage

Polyfoam Refrigerated Vehicle Board is supplied on a pallet secured with tape and designed to be easily recognised and labelled with identifying product and manufacturing data. The boards are easy to handle and protective clothing is not required when installing them.

Ensure the boards are not stored close to open flames or other ignition sources and avoid volatile organic compounds and chemicals such

as solvents. Polyfoam Refrigerated Vehicle Board should not be left exposed to prolonged sunlight as this will result in surface degradation.

When outside storage for extended periods is required cover the products with opaque/light coloured sheeting.

Standards

Polyfoam Refrigerated Vehicle Board is manufactured in accordance with BS EN 13164, ISO 50001 Energy Management Systems, ISO 45001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems.