PolyFoam LAMINATE

INSULATION FOR FABRICATION

March 2019

Polyfoam™ Laminating Board

For fabrication

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m^2K/W)	Tolerance (mm)	Nominal density (kg/m^3)	Boards per pallet (mm)
2400 x 1200					
17.5	0.033	0.50	.+/-1.0	30	68
20	0.033	0.60	.+/-1.0	30	60
25	0.033	0.75	.+/-1.0	30	48
30	0.033	0.90	.+/-1.0	30	40
35	0.033	1.05	.+/-1.0	28	36
40	0.033	1.20	.+/-1.0	28	32
45	0.033	1.35	.+/-1.0	28	28
50	0.033	1.50	.+/-1.0	30	24
3000 x 1220					
21.0	0.033	0.60	.+/-1.0	30	56
23.0	0.033	0.65	.+/-1.0	30	52
25.0	0.033	0.75	.+/-1.0	30	48
27.0	0.033	0.80	.+/-1.0	30	44
50.0	0.033	1.50	.+/-1.0	28	24

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 Laminating Board is 0.033W/mK.

The compressive strength of Polyfoam Laminating Board is 200 kPa

Benefits

- High compressive strength
- Highly resistant to water absorption
- Able to resist repeated freeze/thaw cycles
- Structurally stable in the long term
- Global Warming Potential <5

Certification

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

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POL1007DAT - V0319

Description

Polyfoam Laminating 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 Laminating Board is lightweight and has excellent structural strength.

Application

Polyfoam Laminating Board is suitable for thermal and structural insulation as a fabrication board for a wide variety of manufacturing processes and applications.

Durability

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

Compressive strength

Polyfoam Laminating 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.

Vapour resistivity

Polyfoam Laminating Board - 625MNs/g.m, when tested in accordance with EN 12086.

Moisture absorption

The moisture absorption of Polyfoam Laminating Board is 0.6% by volume when tested in accordance with EN 12087.

Moisture resistance

Polyfoam Laminating 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 Laminate 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 Laminate 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 Ltd has been awarded a certifcate of approval from BRE Global, stating that, having complied with requiremets of BES 6001:issue 3.1, Polyfoam XPS Ltd have achieved a performance rating of 'Pass' for our Polyfoam product range. BRE BES 6001 certifications are published on BRE's Green Book Live website. www.greenbooklive.com

Handling and storage

Polyfoam Laminating 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 Laminating 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.

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