



STYROFOAM* LB-X

Properties	Standard	Unit	STYROFOAM LB-X
Thermal conductivity			
Declared ⁽¹⁾	BS EN 13164	W/m-K	
30 - 70 mm			0,029
71 - 120			0,030
121 +			0,031
Declared ⁽²⁾	BS EN 13164	W/m-K	
</= 50 mm			0,028
> 50			0,027
10°C/60 days All thicknesses	BS EN 12667 /BS EN 12939	W/m-K	0,027
Mechanical properties			
Compressive strength - vertical at 10% or break (90 days)	BS EN 826	kPa	300
Design compressive strength 2% max deflection (50 years)	BS EN 1606	kPa	110
Compressive modulus	BS EN 826	MPa	12
Tensile strength	BS EN 1607	MPa	0,5
Tensile modulus	BS EN 1607	MPa	12
Shear strength	BS EN 12090	kPa	250
Shear modulus	BS EN 12090	MPa	8
Water absorption by immersion (28 days)	BS EN 12087	vol %	1.5 max
Water vapour diffusion resistance factor	BS EN 12086	μ	100
Dimensional stability			
48 hours at 70 °C & 90 % RH	BS EN 1605	%	2 max
168 hours at 40 kPa & 70 °C	BS EN 1605	%	5 max
Dimensions: thickness, width, length		mm	on request
Dimensions: tolerances ⁽³⁾			
Thickness	BS EN 823	mm	- 0.5 to + 0.5
Width <700 mm	BS EN 822	mm	0 to + 3
>/= 700	BS EN 822	mm	0 to + 5
Length	BS EN 822	mm	0 to +10
Edge profile	–	–	butt
Surface finish	–	–	planed
Density	BS EN 1602	kg/m ³	35
Coefficient of linear expansion	BS 4370: Method 13	mm/m-K	0,07
Temperature limits	–	°C	-50/+75
Reaction to fire	BS EN 13501	EUROCLASS	E

Note:

The properties given above are typical unless stated otherwise.
Results of tests described are available from Dow.

1. Diffusion open
2. Diffusion tight facings
3. Products with special dimensions or closer tolerances may be available on request.

Notice:

Recommendations about the methods, use of materials and construction details are given as a service to designers and contractors. These are based on Dow's experience and knowledge with the use of STYROFOAM and are given in good faith. However, since Dow, as a material supplier, exercises no control over the installation of STYROFOAM, no legal responsibility is accepted for such recommendations. In particular no responsibility is accepted by Dow for the systems in which STYROFOAM is utilised or the methods of application by which it is installed. The legal obligations of Dow in respect of any sale of STYROFOAM shall be determined solely by the terms of the respective sales contract. Anyone wishing to reproduce or publish any of this data sheet in whole or in part should request permission from Dow.

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