

Technical Data

STYROFOAM™ FB-X

Extruded Polystyrene Foam XPS (EN13164) – free from HCFC – blue color

Properties ¹⁾	CE-Code	Standard	Unit	Value
Density		DIN EN 1602	kg/m ³	32
Thermal conductivity @ 10°C		DIN EN 12667/ DIN EN 12939	W/m·K	0,030
Thermal conductivity λ_D		DIN EN 13164	W/m·K	0,033
λ design value according to Z-23.15-1476		DIN 4108-4	W/m·K	0,034
Compressive stress or compressive strength @ 10 % deformation ²⁾	CS(10\Y) σ_m	DIN EN 826	N/mm ² ³⁾	0,20
Compressive modulus ²⁾	–	DIN EN 826	N/mm ²	8
Tensile strength	TR400	DIN EN 1607	N/mm ²	0,40
Water vapour diffusion resistance factor (μ)	–	DIN EN 12086	–	100
Long term water absorption by total immersion	WL(T) 1,5	DIN EN 12087	Vol.-%	≤ 1,5
Dimensional stability under specified temperature and humidity	DS(TH)	DIN EN 1604	%	≤ 2
Reaction to fire		DIN 4102	–	B1
Reaction to fire Euroclasse		EN 13501-1	–	E
Coefficient of linear thermal expansion	–	–	mm/m·K	0,07
Temperature limits	–	–	°C	–180/+75 ⁵⁾
Capillarity	–	–	–	0
Edge profile	–	–	–	butt
Surface finish	–	–	–	planed
Dimensions ⁴⁾				
Thickness	–	DIN EN 823	mm	200
Width	–	DIN EN 822	mm	600
Length	–	DIN EN 822	mm	2500
Tolerances ⁴⁾				
Thickness	T3	DIN EN 823	mm	–1/+1
Width < 700 mm	–	DIN EN 822	mm	–0/+3
Length	–	DIN EN 822	mm	–0/+10

- 1) The properties refer to thickness ranges mentioned in the table.
- 2) Measured in thickness direction
- 3) 1 N/mm² = 10³ kPa; 1 kPa = 10^{–3} MPa
- 4) Products with special dimensions or closer tolerances may be available upon request.
- 5) Temperature limit –180 °C only for pipe shells



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