

Extruded polystyrene foam XPS (EN13164) - HCFC-free

Properties ¹⁾	Standard	Unit	Value	Governm. Standard
Density	DIN EN 1602	kg/m ³	35	
Thermal conductivity @ 10 °C ≤ 50 mm	EN 12667/ EN 12939	W/m·K	0,026	
Thermal conductivity λ _D	DIN EN 13164	W/m·K	0,029	
λ design value	DIN 4108-4	W/m·K	0,029	
Compressive stress or compressive strength @ 10% deformation	DIN EN 826	N/mm ² ²⁾	0,3 ⁴⁾	CS(10\Y)σ _m
Compressive modulus	DIN EN 826	N/mm ²	12	-
Compressive creep (50 years) ≤ 2% deformation	DIN EN 1606	N/mm ²	0,12	CC(2/1,5/50)σ _c
Water vapour diffusion resistance factor (μ)	DIN EN 12086	-	150	-
Long term water absorption by total immersion	DIN EN 12087	Vol.-%	≤ 0,5	WL(T)0,7
Dimensional stability under specified temperature and humidity	DIN EN 1604	%	≤ 2	DS(TH)
Reaction to fire	DIN 4102	-	B1	-
Reaction to fire Euroclass	EN 13501-1	-	E	-
Coefficient of linear thermal expansion	-	mm/m·K	0,07	-
Temperature limits	-	°C	-50/+75	-
Capillarity	-	-	0	-
Edge profile	-	-	butt	-
Surface finish	-	-	planed	-
Dimensions ³⁾				
Thickness	DIN EN 823	mm	50 - 100	-
Width	DIN EN 822	mm	600	-
Length	DIN EN 822	mm	2500	-
Toleranzen ³⁾				
Thickness	DIN EN 823	mm	-2/+3	T1
Width < 700 mm	DIN EN 822	mm	-0/+3	-
Tolerances Length	DIN EN 822	mm	-0/+10	-

1) The properties refer to thickness ranges mentioned in the table
 2) 1 N/mm² = 10³ kPa; 1 kPa = 10⁻³ MPa
 3) Products with special dimensions or closer tolerances may be available upon request.
 4) Compressive strength ≥ 0,35 N/mm²

Governmental standard:
XPS-EN13164-T1-CS(10/Y)300-DS(TH)



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