

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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XPS-EN13164-T3-CS(10/Y)200-DS(TH)