



Technical Data

XENERGY™ LBH

Properties	Standard	Unit	XENERGY™ LBH	CE-Code
Density (typical value)	EN 1602	kg/m ³	33	-
Thermal conductivity declared (λ_D)	EN 13164	W/(m.K)	0,031	λ_D
Thermal conductivity for 60 days old foam - mean value at 10°C	EN 12667 EN 12939	W/(m.K)	0,029	λ -mean, 60d
Compressive stress or compressive strength @ 10% deformation ¹⁾	EN 826	kPa	300	CS(10\Y)
Tensile strength ¹⁾	EN 1607	kPa	600	TR
Shear strength	EN 12090	kPa	250	SS
Moduli (typical values) E-Modulus ¹⁾	EN 826	MPa	12 (≤ 30 mm) 15 (31-80mm) 20 (> 80 mm)	-
Tensile modulus ¹⁾	EN 1607	MPa	24 (≥ 50 mm)	-
Shear modulus G ²⁾	EN 12090	MPa	8	-
Water vapor diffusion resistance factor (tabulated value)	EN ISO 10456	-	150	-
Long term water absorption by total immersion	EN 12087	%	1,5	WL(T)
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	EN 1604	%	5	DS(70,90)
Deformation under specified compressive load (40kPa) and temperature (70°C) conditions	EN 1605	%	5	DLT(2)5
Capillarity	-	%	0	-
Coefficient of linear thermal expansion (typical value)	-	mm/(m.K)	0,07	-
Reaction to fire - Euroclass	EN 13501-1	-	E	-
Temperature limits	-	°C	-50/+75	-
Dimensions ³⁾				
Thickness	EN 823	mm	20-200	-
Width	EN 822	mm	600/1200	-
Length	EN 822	mm	2500/3000	-
Tolerances				
Thickness	EN 823	mm	-/+0,5	T
Width	EN 822	mm	<700mm: -0/+3 ≥ 700 mm: -0/+5	-
Length	EN 822	mm	-0/+10	-
Edge profile	-	-	butt edge	-
Surface Finish	-	-	planed / grooved	-
Designation Code: XPS - EN 13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)1,5 - TR600 - SS250				

1) Measured in thickness direction.

2) It may vary with the in-plane direction.

3) Products with special dimensions or closer tolerances are available upon request.

1 N/mm² = 10³ kPa; 1 kPa = 10⁻³ MPa.

Data of the new products (XENERGY™ grades) is pending certification

All non declared properties are typical values

January 2019 - This document supersedes all previous versions and editions

Note:

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