



Fine tolerance filament sliced surface

	Properties	Unit	Unit	Value
Measurements	Thickness	mm	DIN EN 823	2,8 - 45
	Length	mm	DIN EN 822	1000 - 3010
	Width	mm	DIN EN 822	460 - 900 ^{①,③}
Tolerances	Thickness	mm	DIN EN 823	± 0,5
	Length	mm	DIN EN 822	± 5
	Width	mm	DIN EN 822	± 1
	Rectangularity	mm/m	DIN EN 824	≤ 5
Property mechanics	Compressive strength or compressive stress at 10% deformation	kPa ^②	DIN EN 826	≥ 300 - ≥ 700 ^{①,③}
	Tensile strength	kPa ^②	DIN EN 1607	≥ 600
	Compressive modulus	N/mm ²	DIN EN 826	10 - 45 ^{①,③}
Other Properties	Density	kg/m ³	DIN EN 1602	> 30
	Thermal conductivity λ ₀	W/(m·K)	DIN EN 13164	0,035 - 0,037 ^③
	Working temperature	°C	/	-50 / +75
	Reaction to fire	/	DIN 4102-1	B1
		/	EN 13501-1	Euroclass E
	Long-term water absorption by total immersion	Vol-%	DIN EN 12087	≤ 1,0
	s _p -value	m	DIN EN 12086	3 - 16 ^①
	Coefficient of linear thermal expansion	mm/(m·K)	/	0,07
	Dimensional stability under 70°C relative humidity 90%	%	EN 1604	≤ 5
Dimensional stability under 70°C temperature, 40 kPa load	%	EN 1605	≤ 5	

① depending on thickness ② 100 kPa = 10,0 kN/m² = 0,1 N/mm² ③ depending on compressive strength

Chemical resistance	water / seawater / salt-dilutions / alcohols / liquefied inorganic gases / bases / weak & diluted acids / bitumen / lime / cement / gypsum / sand					
Properties of XPS	homogeneous, with close cells, pressure resistant, elastic; hydrophobic, non-rotting, non-aging, not ultraviolet-consistent; Machining of XPS with milling cutters, saws, heated filaments.					
Adhesion	for example adhesion with hotmelt-, epoxy- and polyurethane solution adhesive without solvents					
Treatment	Cutting with shaping, sawing, hot-wire, shearing					
Product spectrum	Length [mm]	Thickness [mm]	min. and max. width [mm]	Compressive strength [kPa]	Tensile strength [kPa]	Thermal conductivity [W/(m·K)]
	3.010	2,8 - 45	460 - 900	≥ 300	≥ 600	0,035
		2,8 - 45	460 - 600	≥ 500	≥ 600	0,037
		2,8 - 45	500 - 600	≥ 700	≥ 600	0,037
Width variations can be manufactured in 5 mm increments. (... , 600, 605, 610 mm, ...) Length variations can be manufactured in 10 mm increments. (... , 2090, 3000, 3010 mm, ...) Board thicknesses of 1/10 mm are also available by arrangement.						

