

EPS 100 F



1. Designation:

EPS 100 F

2. Raw material

Expanded polystyrene

HBCD free

3. Format:

1000 x 500 mm

4. Packing:

to the PE foil in packaging/non-standard dimensions are hand-wrapped.


5. Use according to

ČSN 72 7221-1

Insulation boards are intended for construction without major requirements on load pressure. Are dimensionally stabilized and are used primarily as a layer of insulation of roofs and insulation of the walls with the exception of ETICS.

6. Technical data:

General attributes/standards	Symbol	Units	Values
Thermal conductivity / EN 12667 or EN 12939	λ_D	[W/mK]	0.037
Reaction to fire class / EN13501-1 Reaction to fire class / DIN 4102-1 Basic mounting and fixing / EN15715	RtF		(E) B1
The type of EPS			EPS 70 F
Thickness / EN 823	d	[mm]	T(1) / ± 1
Length / EN 822	l	[mm]	L(2) / ± 2
Width / EN 822	b	[mm]	W(2) / ± 2
Squareness on length and width / EN 824	S	[mm/m]	S(2) / ± 2
Flatness / EN 825	P	[mm]	P(3) / max. 3
Bending strength / EN 12089	σ_b	[kPa]	BS150 min. 150

Compressive stress at 10% deformation / EN 826	σ_{10}	[kPa]	CS(10)100 min. 100
Dimensional stability / EN 1603 EN 1604	$\Delta\epsilon$	[%]	DS(N)2 max. 0,2
Long term water absorption by immersion / EN 12087	WIT	[%]	WL(T)5 max. 5(3,39)
Tensile strength perpendicular to faces / EN 1607	σ_{mt}	[kPa]	TR150 min. 150
The shear strength	τ/G	[kPa]	SS50/GM1000 min. 50/1000
Colour marking (front, three color bars)			

7. Packaging and insulation: Panels 1000 x 500 mm

The thickness in mm	The quantity in pcs	Packaging m ² /package	Packaging m ³ /package	R _(D) (m ² K) in/W	U W/(m ² K)
10	50	25	0.25	0.27	3.70
20	25	12.5	0.25	0.54	1.85
30	16	8	0.24	0.81	1.23
40	12	6	0.24	1.08	0.93
50	10	5	0.25	1.35	0.74
60	8	4	0.24	1.62	0.62
70	7	3.5	0.245	1.89	0.53
80	6	3	0.24	2.16	0.46
90	5	2.5	0.225	2.43	0.41
100	5	2.5	0.25	2.70	0.37
110	4	2	0.22	2.97	0.34
120	4	2	0.24	3.24	0.31
130	3	1.5	0.195	3.51	0.28
140	3	1.5	0.21	3.78	0.26
150	3	1.5	0.225	4.05	0.25
160	3	1.5	0.24	4.32	0.23
180	2	1	0.18	4.86	0.21
200	2	1	0.20	5.41	0.19
220	2	1	0.22	5.95	0.17
240	2	1	0.24	6.49	0.15
250	2	1	0.25	6.76	0.15
260	1	0.5	0.13	7.03	0.14
280	1	0.5	0.14	7.57	0.13
300	1	0.5	0.15	8.11	0.12

The data given in the table are applied only to the values of the insulation material and contain no additional layers.

8. The EN code marking:

EPS-EN 13163 T(1)-L(2)-W(2)-S(2)-P(3)-BS115-CS(10)70-DS(N)2-DS(70,-)1-TR100-SS50-GM1000-MU40-WL(T)5



9. Handling and storage:

1. Protect against UV radiation and direct sunlight.
2. Store in a dry and ventilated environment.
3. Store separately from the solvents and volatile substances.
4. Handle and store so as to avoid mechanical damage of the product.