

May 2022

Product photos



surface: polished

General information

Slab- / block sizes	500 x 500 x 10 up to 420 mm
Tolerance value	
Length, width	- 0 / + 2.0 mm
Slab-thickness	- 0 / + 0.5 mm
Slab-surface	sawn
Machining	according to PORTEC information "Machining Guidelines"

Technical data at 20°C

Property	Standard	Units	Value
Density		g/cm ³	1.7
Shore hardness D	DIN EN ISO 868		82
Flexural strength	DIN EN ISO 178	MPa v N/mm ²	40
E-module	DIN EN ISO 527	MPa v N/mm ²	4900
Impact strength	DIN EN ISO 179-1	kJ/m ²	1
Compressive strength	DIN EN ISO 604	MPa v N/mm ²	24
Coefficient of thermal expansion 25-125°C	ISO 11359	ppm/K v 10 ⁻⁶ x K ⁻¹	29
Heat conductivity at 20°C	DIN EN ISO 22007-2	Wm ⁻¹ x K ⁻¹ v W/m x K	25.6
Specific surface resistance	DIN EN 62631-3-2	Ohm	>500
Dimensional stability	DIN EN ISO 75-1	°C	108
Mean pore diameter		µm	89
Total porosity		%	26

Air flow rates

The numbers are average values for calculating air consumption for overpressure or underpressure applications. Specification in liter per minute per cm².

Pressure in bar	Plate thickness in mm							
	10	15	20	25	30	40	60	100
0.2	3.540	2.928	2.196	1.872	1.653	1.358	0.977	0.798
0.3	4.138	3.685	2.977	2.510	2.226	1.851	1.390	1.112
0.4	4.661	4.441	3.623	3.063	2.731	2.269	1.709	1.421
0.5	5.440	5.146	4.184	3.553	3.168	2.649	2.022	1.676
0.6	6.719	5.930	4.630	3.973	3.572	2.977	2.295	1.888
0.7	7.234	6.738	5.174	4.368	3.937	3.285	2.504	2.106
0.8	8.122	7.521	5.695	4.726	4.280	3.583	2.721	2.295
0.9	9.019	8.305	6.228	4.982	4.578	3.838	2.925	2.469
1.0	9.913	9.088	6.816	5.447	4.887	4.094	3.115	2.648
2.0	18.852	16.918	12.688	9.946	9.016	7.583	4.718	4.061
3.0	27.791	24.748	18.561	14.445	13.145	11.073	6.321	5.138
4.0	36.729	32.578	24.433	18.944	17.274	14.563	7.924	6.439
5.0	45.668	40.409	30.306	23.443	21.403	18.053	9.527	7.684