

## Product photos



surface: polished

## General information

Slab- / block sizes	500 x 500 x 10 up to 400 mm 1000 x 500 x 15 up to 200 mm
Tolerance value	
Length, width	- 0 / + 2.0 mm
Slab-thickness (blocks of 500 x 500 x 400)	- 0 / + 0.5 mm
Slab-thickness (blocks of 1000 x 500 x 200)	- 0 / + 2.0 mm
Slab-surface	sawn
Machining	according to PORTEC information "Machining Guidelines"

## Technical data at 20°C

Property	Standard	Units	Value
Density		g/cm <sup>3</sup>	<b>1.8</b>
Shore hardness D	DIN EN ISO 868		<b>86</b>
Flexural strength	DIN EN ISO 178	MPa v N/mm <sup>2</sup>	<b>52</b>
E-module	DIN EN ISO 527	MPa v N/mm <sup>2</sup>	<b>6800</b>
Impact strength	DIN EN ISO 179-1	kJ/m <sup>2</sup>	<b>8-10</b>
Compressive strength	DIN EN ISO 604	MPa v N/mm <sup>2</sup>	<b>33</b>
Coefficient of thermal expansion 25-125°C	ISO 11359	ppm/K v 10 <sup>-6</sup> x K <sup>-1</sup>	<b>32</b>
Heat conductivity at 20°C	DIN EN ISO 22007-2	Wm <sup>-1</sup> x K <sup>-1</sup> v W/m x K	<b>20.9</b>
Specific surface resistance	DIN EN 62631-3-2	Ohm	<b>&gt;500</b>
Dimensional stability	DIN EN ISO 75-1	°C	<b>108</b>
Mean pore diameter		µm	<b>41</b>
Total porosity		%	<b>17</b>

### **Air flow rates**

The numbers are average values for calculating air consumption for overpressure or underpressure applications. Specification in liter per minute per cm<sup>2</sup>.

Pressure in bar	Plate thickness in mm							
	10	15	20	25	30	40	60	100
<b>0.2</b>	0.353	0.261	0.237	0.218	0.212	0.228	0.198	0.090
<b>0.3</b>	0.424	0.325	0.290	0.262	0.249	0.252	0.217	0.104
<b>0.4</b>	0.500	0.385	0.344	0.309	0.288	0.277	0.237	0.118
<b>0.5</b>	0.584	0.445	0.396	0.355	0.325	0.301	0.257	0.131
<b>0.6</b>	0.667	0.512	0.448	0.396	0.362	0.324	0.276	0.145
<b>0.7</b>	0.746	0.578	0.504	0.446	0.402	0.350	0.297	0.159
<b>0.8</b>	0.815	0.638	0.558	0.492	0.437	0.372	0.316	0.173
<b>0.9</b>	0.881	0.691	0.606	0.534	0.477	0.397	0.335	0.187
<b>1.0</b>	0.941	0.751	0.653	0.576	0.516	0.425	0.358	0.201
<b>2.0</b>	1.424	1.166	1.018	0.913	0.807	0.658	0.550	0.339
<b>3.0</b>	1.792	1.494	1.320	1.193	1.080	0.898	0.755	0.478
<b>4.0</b>	2.111	1.774	1.592	1.454	1.316	1.116	0.955	0.616
<b>5.0</b>	2.393	2.020	1.828	1.669	1.537	1.313	1.143	0.755