

METAPOR® CE 100 WHITE – Technical data

October 2004

Physical properties at 20°C

Property	Standard	Units	Value
Density		g/cm ³	1.7
Shore hardness D	DIN 53505		89
Flexural strength	ISO 178	Mpa	28.5
E module	ISO 527	Mpa	14498
Impact strength	ISO 179	KJ/m ²	1.0
Heat conductivity	ISO 8894	W/m.K	1.6
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ K-1	25-30
Thermal dimensional stability	ISO 75 A	°C	100
Total porosity		%	20

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 difference In bar	Plate thickness in mm				
	10	15	20	25	30
0.2	0.42	0.35	0.31	0.26	0.23
0.3	0.53	0.44	0.38	0.34	0.30
0.4	0.65	0.55	0.48	0.42	0.37
0.5	0.77	0.65	0.57	0.51	0.46
0.6	0.89	0.75	0.67	0.59	0.54
0.7	1.01	0.87	0.77	0.67	0.62
0.8	1.15	0.99	0.87	0.79	0.71
0.9	1.29	1.12	0.98	0.88	0.80
1.0	1.42	1.22	1.08	0.96	0.90
2.0	2.53	2.20	1.97	1.79	1.65
3.0	3.45	3.02	2.72	2.48	2.28
4.0	4.25	3.73	3.37	3.08	2.85
5.0	4.92	4.34	3.93	3.60	3.34
6.0	5.48	4.84	4.39	4.04	3.75