METAPOR® HD 210 AL – Technical data

September 2003

Physical properties at 20°C

Property	Standard	Units	Value
Density		g/cm^3	**1.9**
Shore hardness D	DIN 53505		**82**
Flexural strength	DIN 53452	N/mm^2	**43**
E module	DIN 53457-B3	N/mm^2	**10800**
Impact strength	DIN 53453	kJ/m^2	**11**
Coefficient of thermal expansion 25 – 125°C	DIN 53752	$°C^{-1} \times 10^{-6}$	**32**
Heat conductivity: at 100°C	DIN 52612	$Wm^{-1}\ °C^{-1}$	**19**
Dimensional stability according Martens	DIN 53462	°C	**210**
Mean pore diameter		µm	**12**
Total porosity		%	**16**

Air flow rates

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

Pressure difference	Plate thickness in mm							
in bar	10	15	20	25	30	40	60	100
0.2	0.21	0.17	0.11	0.09	0.07	0.06	0.04	0.01
0.3	0.25	0.21	0.13	0.12	0.09	0.07	0.05	0.02
0.4	0.29	0.25	0.16	0.14	0.11	0.09	0.06	0.03
0.5	0.33	0.28	0.18	0.16	0.13	0.11	0.07	0.03
0.6	0.38	0.32	0.20	0.18	0.15	0.12	0.09	0.04
0.7	0.42	0.36	0.23	0.20	0.16	0.14	0.10	0.05
0.8	0.46	0.39	0.25	0.23	0.18	0.15	0.11	0.06
0.9	0.50	0.43	0.27	0.25	0.20	0.17	0.12	0.07
1.0	0.54	0.46	0.30	0.27	0.22	0.18	0.14	0.08
2.0	0.91	0.80	0.51	0.47	0.38	0.33	0.25	0.16
3.0	1.24	1.09	0.71	0.64	0.53	0.46	0.36	0.23
4.0	1.53	1.34	0.88	0.80	0.66	0.57	0.45	0.30
5.0	1.77	1.56	1.02	0.94	0.77	0.67	0.54	0.37
6.0	1.97	1.74	1.14	1.05	0.86	0.76	0.61	0.43

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