

## SIGRAFINE® R6303H

Material: Carbon material Forming: Isostatically pressed Application: Semiconductor applications

## Material data of SIGRAFINE® R6303H

Typical properties	Units	Test standards	Values*
Average grain size	μm		20
Apparent density	g/cm <sup>3</sup>	DIN IEC 60413/203	1.52
Open porosity	Vol. %	DIN 66133	19
Medium pore size	μm	DIN 66133	2
Permeability	cm²/s	DIN 51935	0.6
Rockwell hardness HR 10/100		DIN IEC 60413/303	90
Specific electrical resistivity	μΩm	DIN IEC 60413/402	35
Flexural strength	MPa	DIN IEC 60413/501	35
Compressive strength	MPa	DIN 51910	95
Young's modulus	MPa	DIN 51915	12
Thermal expansion (20 – 200 °C)	K-1	DIN 51909	3.5 x 10 <sup>-6</sup>
Thermal conductivity	Wm <sup>-1</sup> K <sup>-1</sup>	DIN 51908	12

\* Typical average values of different rectangular and round block sizes. The actual individual block values might vary depending on dimension and format. For any engineering/design purposes please always contact our technical sales team.



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