

# 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	cm <sup>2</sup> /s	DIN 51935	0.6
Rockwell hardness HR <sub>10/100</sub>		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 <sup>-1</sup>	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.

