sgl carbon

SIGRAFINE® R6340

Material: Graphite
Forming: Isostatically pressed
Application: Semiconductor

Material data of SIGRAFINE® R6340

Typical properties	Units	Test standards	Values*
Average grain size	µm	ISO 13320	15
Bulk density	g/cm³	DIN IEC 60413/204	1.72
Open porosity	Vol. %	DIN 66133	15
Medium pore entrance diameter	µm	DIN 66133	2.2
Coefficient of permeability (ambient temperature)	cm²/s	DIN 51935	0.25
Rockwell hardness HR $_{10/100}$		DIN IEC 60413/303	80
Resistivity	µΩm	DIN IEC 60413/402	12
Flexural strength	MPa	DIN IEC 60413/501	45
Compressive strength	MPa	DIN 51910	90
Dynamic modulus of elasticity	MPa	DIN 51915	11×10^3
Thermal expansion (20 – 200 °C)	K^{-1}	DIN 51909	3.2×10^{-6}
Thermal conductivity (20 °C)	$Wm^{-1}K^{-1}$	DIN 51908	105
Ash content	ppm	DIN 51903	**

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