SIGRAFINE® R6300

Material: Graphite
Forming: Isostatically pressed
Application: Semiconductor

Material data of SIGRAFINE® R6300

Typical properties	Units	Test standards	Values*
Average grain size	µm	ISO 13320	20
Bulk density	g/cm³	DIN IEC 60413/204	1.73
Open porosity	Vol. %	DIN 66133	14
Medium pore entrance diameter	µm	DIN 66133	1.6
Coefficient of permeability (ambient temperature)	cm²/s	DIN 51935	0.1
Rockwell hardness $HR_{10/100}$		DIN IEC 60413/303	75
Resistivity	µΩm	DIN IEC 60413/402	16
Flexural strength	MPa	DIN IEC 60413/501	40
Compressive strength	MPa	DIN 51910	85
Dynamic modulus of elasticity	MPa	DIN 51915	10×10^3
Thermal expansion (20 – 200 °C)	K^{-1}	DIN 51909	2.7×10^{-6}
Thermal conductivity (20 °C)	$Wm^{-1}K^{-1}$	DIN 51908	70
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.

Graphite Materials & Systems | SGL CARBON GmbH
Sales Europe/Middle East/Africa | gms-europe@sglcarbon.com
Sales Americas | gms-americas@sglcarbon.com
Sales Asia/Pacific | gms-asia@sglcarbon.com
www.fine-grain-graphite.com | www.sglcarbon.com

TDS R6300.00
04 2019/0 E Printed in Germany