

SIGRAFINE® R6140

Material: Graphite

Forming: Isostatically pressed

Application: Semiconductor, photovoltaics.

Material data of SIGRAFINE® R6140

Typical properties	Units	Test standards	Values*
Average grain size	µm	ISO 13320	150
Bulk density	g/cm ³	DIN IEC 60413/204	1.56
Open porosity	Vol. %	DIN 66133	24
Medium pore entrance diameter	µm	DIN 66133	14
Coefficient of permeability (ambient temperature)	cm ² /s	DIN 51935	16
Resistivity	µΩm	DIN IEC 60413/402	15
Flexural strength	MPa	DIN IEC 60413/501	11
Compressive strength	MPa	DIN 51910	25
Dynamic modulus of elasticity	MPa	DIN 51915	5 x 10 ³
Thermal expansion (20 – 200 °C)	K ⁻¹	DIN 51909	2 x 10 ⁻⁶
Thermal conductivity (20 °C)	Wm ⁻¹ K ⁻¹	DIN 51908	65
Ash content	ppm	DIN 51903	200

* 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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TDS R6140.00

04 2019/0 E Printed in Germany

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