

SIGRAFINE® R7140H

Material: Carbon

Forming: Isostatically pressed

Application: Glass technology

Material data of SIGRAFINE® R7140H

Typical properties	Units	Test standards	Values*
Average grain size	µm	ISO 13320	150
Bulk density	g/cm ³	DIN IEC 60413/204	1.53
Open porosity	Vol. %	DIN 66133	18
Medium pore entrance diameter	µm	DIN 66133	12
Rockwell hardness HR _{10/60}		DIN IEC 60413/303	85
Resistivity	µΩm	DIN IEC 60413/402	55
Flexural strength	MPa	DIN IEC 60413/501	15
Compressive strength	MPa	DIN 51910	50
Dynamic modulus of elasticity	MPa	DIN 51915	7 x 10 ³
Thermal expansion [20 – 200 °C]	K ⁻¹	DIN 51909	3.5 x 10 ⁻⁶
Thermal conductivity [20 °C]	Wm ⁻¹ K ⁻¹	DIN 51908	4
Ash content	ppm	DIN 51903	max. 0.2 %

* 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.

