

## 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 <sup>3</sup>	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 <sup>3</sup>
Thermal expansion (20 – 200 °C)	K <sup>-1</sup>	DIN 51909	3.5 x 10 <sup>-6</sup>
Thermal conductivity (20 °C)	Wm <sup>-1</sup> K <sup>-1</sup>	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.



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