

SIGRAFINE® R7141H

Material: Carbon Forming: Die moulded

Application: Glass technology

Material data of SIGRAFINE® R7141H

Typical properties	Units	Test standards	Values*_
Average grain size	μm	ISO 13320	150
Bulk density	g/cm³	DIN IEC 60413/204	1.53
Open porosity	Vol. %	DIN 66133	18
Medium pore entrance diameter	μm	DIN 66133	12
Coefficient of permeability (ambient temperature)	cm²/s	DIN 51935	12
Rockwell hardness HR ₁₀ / ₆₀		DIN IEC 60413/303	90
Resistivity	μΩm	DIN IEC 60413/402	47
Flexural strength	MPa	DIN IEC 60413/501	17
Compressive strength	MPa	DIN 51910	55
Dynamic modulus of elasticity	MPa	DIN 51915	10 x 10 ³
Thermal expansion (20 – 200 °C)	K ⁻¹	DIN 51909	3.1 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.



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