# SIGRAFINE® R6710

**Material:** Graphite
**Forming:** Isostatically pressed
**Application:** Semiconductor, photovoltaics

## Material data of SIGRAFINE® R6710

| Typical properties | Units | Test standards | Values* |
|---|---|---|---|
| Average grain size | µm | ISO 13320 | 3 |
| Bulk density | g/cm³ | DIN IEC 60413/204 | 1.88 |
| Open porosity | Vol. % | DIN 66133 | 10 |
| Medium pore entrance diameter | µm | DIN 66133 | 0.6 |
| Coefficient of permeability (ambient temperature) | cm²/s | DIN 51935 | 0.01 |
| Rockwell hardness HR $_{5/100}$ | | DIN IEC 60413/303 | 105 |
| Resistivity | µΩm | DIN IEC 60413/402 | 13 |
| Flexural strength | MPa | DIN IEC 60413/501 | 85 |
| Compressive strength | MPa | DIN 51910 | 170 |
| Dynamic modulus of elasticity | MPa | DIN 51915 | 13.5 x $10^3$ |
| Thermal expansion (20 – 200 °C) | $K^{-1}$ | DIN 51909 | 4.7 x $10^{-6}$ |
| Thermal conductivity (20 °C) | $Wm^{-1}K^{-1}$ | DIN 51908 | 110 |

* 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.

**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

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