

SIGRAFINE® HLM

Material: Graphite

Forming: Extruded

Application: Industrial and electronic applications

Material data of SIGRAFINE® HLM

Typical properties	Units	Test standards		
			Ø 75 ... Ø 250 ... mm	Ø 300 ... Ø 780 mm □ 500² ... mm
Bulk density	g/cm³	ASTM C559	1.75	1.72
Max. grain size	mm	DIN 66165	0.8	0.8
Open porosity	Vol. %	ASTM C604	15	16
Resistivity	µΩm	ASTM C611	II	7.2
			I	10.0
Dynamic modulus of elasticity	GPa	ASTM C747	II	11.0
			I	7.0
Flexural strength (4 points)	MPa	ASTM C651	II	23.0
			I	16.0
Compressive strength	MPa	ASTM C695	II	46
			I	42
Tensile strength	MPa	DIN 51914	II	17.0
			I	11.0
Thermal expansion (20 – 200 °C)	10 ⁻⁶ K ⁻¹	DIN 51909	II	2.6
			I	4.0
Thermal conductivity (20 °C)	Wm ⁻¹ K ⁻¹	DIN 51908	II	190
			I	130
Ash content	%	DIN 51903	0.08	0.08

II parallel to the grain direction; I perpendicular to the grain direction.

For any engineering/design purposes please always contact our technical sales team.



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