

SPECIALTY GRAPHITE • Type HLM

Specialty Graphites from SGL CARBON

Physical data

Properties		Typical values for widths of			
		≤ 670 mm	760 mm	1220 mm	
Bulk density	g/cm ³	1.70	1.72	1.79	
Open porosity	%	17	23	20	
Max. grain size	mm	0.8	0.8	1.65	
Specific electrical resistance	Ωμm		7.3	7.1	8.6
		⊥	9.4	10.7	10.7
Young's modulus (dynamic measurement)	kN/mm ²		10	11.3	10
		⊥	9	6.7	8
Flexural strength (4 point loading)	N/mm ²		18	16.5	16
		⊥	17	13.8	16
Compressive strength	N/mm ²		39	37.2	42.7
		⊥	35	40	42.7
Tensile strength	N/mm ²		13	12.4	11.7
		⊥	12	10.3	11.7
Linear coeff. of thermal expansion (20/200 °C)	μm/(K·m)		2.1	1.4	2.4
		⊥	3.1	2.9	3.6
Thermal conductivity	W/(K·m)		180	180	150
		⊥	140	120	120
Ash content	%	< 0.1	0.15	0.3	

|| parallel to longitudinal direction of grain ⊥ vertical to longitudinal direction of grain

Standard dimensions

Length [mm]	Height x Width [mm]						
	300 x 300	400 x 400	500 x 500	610x610	460 x 670	610 x 760	610 x 1220
1830	■	■	■	■		■	■
2100			■		■		
2750				■		■	
3300				■			

Nominal dimensions. Other lengths on request.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our "General Conditions of Sale".

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SGL CARBON GROUP

**Specialty Graphite Europe
Business Unit**