

# CARBON FOR THE GLASS INDUSTRY

## MATERIAL CHARACTERISTICS

Material	Apparent density [g/cm <sup>3</sup> ]	Porosity [%]	Flexural strength [N/mm <sup>2</sup> ]	Electrical resistivity [μΩm]	Thermal-conductivity [W/mK]	Thermal conductivity [W/mK] ⊥	Coefficient of thermal expansion [10 <sup>-6</sup> /K]    α 25-1000°C	Coefficient of thermal expansion [10 <sup>-6</sup> /K] ⊥ α 25-1000°C
CF260	1.35	8	80	50		5		
CF264	1.40	8	80	35		25		
CF222	1.55	8	200	22	40	10	0.8	7.0
CF270	1.74	10	60	22	45	10	1.2	7.1
					<b>isotropic</b>		<b>isotropic</b>	
FE879	1.90	10	90	18	70		8.2	
FE779	1.95	6	90	19	65		7.4	
FE679	1.78	11	55	24	45		5.0	
FE519	1.75	12	32	25	50		4.5	
FE219	1.75	14	35	16	75		4.0	
FE49	1.72	15	33	28	40		4.0	4.8
FH42	1.62	11	50	35	11		4.0	

All CF- and FE-grades can be delivered with an oxidation retardant impregnation (Q).