

Carbon-Graphite Properties

GRADE	Density (gmc/cc)	Hardness (Shore)	Compressive Strength (psi)	Transverse Strength (psi)	Tensile Strength (psi)	Modulus of Elasticity (x 10 ⁶ psi)	Coefficient of Thermal Expansion (X 10 ⁻⁶ in/in/°F)	Thermal Conductivity (Btu/hr/ft ² /°F)	Max Operating Temperature (°F)	Porosity (% volume)	Composition
250	1.71	70	12000	5400	2800	1.7	2.9	8.0	750	15	CG
3499	1.66	36	7000	3700	1700	1.1	2.5		800	26	EG
3499Z	1.80	65	22000	8000	6000	2.7			500	0	CGR
580	1.76	45	11000	4800	2000	2.0	2.6	24.0	750	24	EG
580Z	1.82	70	25000	8000		3.0	2.5	8.0	500	2	CGR
7205	1.76	40	8000	4200				75.0	1200	20	CGH
873S	1.77	38	6500	3200		1.8	2.4		750	23	CG
890S	1.66	34	7000	3200					750	26	CG
9Z1	1.80	65	15000	8000	6000	2.7			500	0	CGR
F001	1.80	75	12000	8500	5000	1.6	2.1	60.0	750	15	G
F05	1.80	70	18500	8700	5800	4.3	2.1	57.0	900	8	G
F10	1.70	85	30000	9000	6000	2.5	2.1	6.0	700	0	CG
F15	1.90	90	36000	12500	9500	3.0	2.3	7.6	600	1	CGR
F160	2.45	90	40000	12000	8500	3.9	3.1	7.0	400	0	CGBa
F162	2.40	65	26000	10000	7500	3.7	3.0	9.0	400	0	CGBa
F20	1.70	80	23000	8000		2.9	1.9	8.1	750	5	CG
F20Z	1.85	90	32000	10000	6500	3.8	2.7	8.0	500	0	CGR
F220	1.80	90	31900	10150		3.8	2.7	8.0	500	0	CGR
F24	1.70	90	26000	8000		2.6	2.3	8.0	750	2.5	CG
F24Z	1.81	100	30500	10000		2.8	3.0	10.0	500	0	GR
F32	2.20	95	36000	11500		3.5	2.6	12.0	750	<1	CGSb
F35	2.25	95	37500	13500		4.2	2.2	12.0	750	<1	GSb
F40	1.85	85	30000	9500	6500	3.2	2.9	8.0	500	0	CGR
F41	1.80	95	40000	12500	8500	3.3	3.2	6.0	500	0	CGR
F45	2.10	90	30000	12000	9000	2.7	2.4		1000	0	CGH
F57	1.82	80	16000	6500		1.7	1.9	26.0	1100	10	GH
F58	1.85	80	22000	8500	6000	1.8	2.0	40.0	1200	0	CGH
F60	1.74	60	22000	11000			6.1		350	0	G
F62	1.85	70	21500	8500		2.0	2.2	46.0	1100	10	GH
F72B	2.40	70	27000	9500		4.2	2.3	12.0	400	2.5	CGBa
H	1.64	55	12500	4600	3000	1.7	2.1		700	27	CG
HZ	1.78	70	21000	6200					500	1	CGR
KM60	1.76	75	26000	8500			2.1	5.8	750	9	CGR
MH1	1.70	50	11000	9000			5.0	5.8	375		GR

All above values are typical and should not be used for specifications.



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