

Isotropic Graphite (Special Graphite)



Grade	Bulk Density	Hardness	Electrical Resistivity	Flexural Strength	Compressive Strength	Tensile Strength	Young's Modulus	Coefficient of Thermal Expansion	Thermal Conductivity	Standard Size
	Mg/m ³	HSD	$\mu\Omega\cdot m$	MPa	MPa	MPa	GPa	10 ⁻⁶ /K	W/(m·K)	(mm)
IG-11	1.77	51	11.0	39	78	25	9.8	4.5	120	305X620X1000 Φ585X1050
IG-12	1.78	55	12.5	39	88	28	10.8	4.7	100	305X620X1000 Φ585X1050
IG-15	1.90	60	9.5	54	103	29	11.8	4.8	140	230X620X1000
IG-43	1.82	55	9.2	54	90	37	10.8	4.8	140	300X540X850
IG-45	1.88	55	9.0	60	110	40	12.0	4.9	140	300X540X850
IG-56	1.77	57	12.2	43	88	27	10.3	4.7	100	1050X1050X450 Φ740X730
IG-70	1.83	58	10.0	47	103	31	11.8	4.6	130	305X620X1000 Φ460X1050
IG-82	1.82	64	15.3	53	113	40	10.9	5.1	85	230x540x1000 ø790x790
ISEM-1	1.68	45	13.5	36	69	20	8.8	4.2	90	305X620X1000
ISEM-2	1.78	55	11.0	41	83	25	9.8	4.6	120	305X620X1000
ISEM-3	1.85	60	10.0	49	103	29	11.8	5.0	130	305X620X1000
ISEM-8	1.78	63	13.4	52	106	34	10.1	5.6	90	305X620X1050
ISO-63	1.78	76	15.0	65	135	46	12.0	5.6	70	230X540X1000
ISO-68	1.82	80	15.5	76	172	54	13.2	5.6	70	230X540X1000
TTK-4	1.78	72	14.0	73	135	49	10.9	5.0	90	210X510X950
TTK-5	1.78	80	15.5	80	150	53	11.6	5.7	80	210X510X950
TTK-8	1.77	78	15.0	80	155	55	12.0	5.3	80	100X400X700
TTK-9	1.77	90	18.0	92	180	67	13.0	5.8	70	100X400X700
SIC-6	1.85	60	10.0	49	103	29	11.8	5.0	130	305X620X1000
HPG-51	1.78	73	14.3	75	140	50	11.0	5.1	90	210X510X950
HPG-53	1.78	81	15.7	80	156	55	11.8	5.8	80	210X510X950
HPG-59	1.91	88	13.5	100	210	74	12.7	5.7	95	100X500X950
HPG-81	1.77	80	15.1	83	161	58	12.2	5.2	80	100X400X700
HPG-83	1.77	92	18.2	96	187	70	13.3	5.9	70	100X400X700
FE-8	1.64	108	49	69	-	-	-	-	-	-
Grade	Mg/m ³	HSD	$\mu\Omega\cdot m$	MPa	MPa	MPa	GPa	10 ⁻⁶ /K	W/(m·K)	(mm)
	Bulk Density	Hardness	Electrical Resistivity	Flexural Strength	Compressive Strength	Tensile Strength	Young's Modulus	Coefficient of Thermal Expansion	Thermal Conductivity	Standard Size

1. The figures above are typical values, and are not guaranteed.

2. The measurement temperature range for the coefficient of thermal expansion is 350 to 450°C.

3. Unit conversion: $\mu\Omega\cdot m = \mu\Omega\cdot cm \times 0.01$ MPa=kgf/cm²×0.098 GPa=kgf/mm²×0.0098 W/(m·K) =kcal/h·m°C×1.16

4. There are other product sizes in addition to those described above. Contact Toyo Tanso for details.