



Carbon & Graphite Solutions

Typical Properties of Isotropic Graphite: “G” Series

| Grade | Density | Electrical Resistivity | Coefficient of Thermal Expansion (CTE) | Thermal Conductivity | Shore Hardness | Flexural Strength | Compressive Strength | Tensile Strength | Youngs Modulus | Standard Sizes |
|-------|-------------------|------------------------|--|----------------------|----------------|---------------------------|---------------------------|---------------------------|----------------------------|--|
| | g/cm ³ | μohm-m | x 10 ⁻⁶ /°C | Kcal/m·hr·°C | Shore | Mpa (=N/mm ²) | Mpa (=N/mm ²) | Mpa (=N/mm ²) | Gpa (=kN/mm ²) | (in) |
| G250 | 1.70 | 10.0 | 3.5 | 110 | 46 | 39.2 | 72.5 | 25.5 | 9.8 | 12 X 24 X 48 |
| G330 | 1.79 | 14.0 | 4.8 | 104 | 56 | 39.2 | 78.4 | 25.5 | 9.8 | 12 X 24 X 48 13.9 X 24 X 84 11.8 X 57 X 59 Ø 21 * 37 Ø 36 * X 12 |
| G347 | 1.85 | 11.0 | 5.5 | 116 | 58 | 49.0 | 98.0 | 31.4 | 10.8 | 12 X 24 X 48 9 X 40 X 40 12 X 47 X 47 Ø 15.75 * X 38 |
| G347B | 1.99 | 11.0 | 6 | 117 | 76 | 66.6 | 123.8 | 43.3 | 14.0 | 1.75 X 22 X 22 |
| G348 | 1.92 | 10.0 | 5.5 | 110.1 | 68 | 63.7 | 117.9 | 41.4 | 12.3 | 10 X 15 X 39 6 X 15 X 70 7 X 77 X 31 |
| G520 | 1.83 | 12.0 | 5.5 | 99.7 | 62 | 56.8 | 105.1 | 36.9 | 10.8 | 12 X 24 X 24 9 X 18 X 48 12 X 24 X 48 |
| G530 | 1.82 | 13.0 | 5.5 | 89.4 | 64 | 61.7 | 114.1 | 40.1 | 11.3 | 12 X 24 X 24 9 X 18 X 48 |
| G535 | 1.82 | 17.0 | 5.5 | 69.6 | 72 | 63.7 | 117.8 | 41.4 | 10.8 | 12 X 24 X 24 9 X 18 X 48 10 X 15 X 39 |
| G540 | 1.85 | 15.0 | 5.5 | 80 | 80 | 88.2 | 163.2 | 57.3 | 13.7 | 4 X 18 X 36 |
| G077 | 1.82 | 12.0 | 7.1 | 86 | 66 | 70.0 | 129.5 | 45.52 | 11.0 | 4 X 12 X 18 |

* Non-Standard sizes may also be available upon request. Please check with your salesperson.

* Post Purification to < 5ppm and / or chemical coating on machined components is available.

We do not warrant the accuracy or applicability of the information contained herein or the suitability of the products described herein for any particular purpose.

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