

Grade ATA™ Isomolded Graphite

Since 1886, UCAR Carbon Company has been supplying quality carbon and graphite products, skilled technical service, and experienced application assistance worldwide.

Advanced Graphite Materials

Grade ATA™ Isomolded Graphite

Economical UCAR® Grade ATA is the lowest density version of isostatically molded, fine grain UCAR Grade ATJ™ family of graphite materials.

Typical Applications

ATA is used in general-purpose applications where a fine grain structure and surface finish are needed.

Sizes

Grade ATA Isomolded: 16 x 16 x 65" rectangles
 12 x 25 x 80" rectangles
 8" – 24" diameter x 72" long rounds

Typical Properties at Room Temperature

| | ENGLISH | | METRIC | |
|-----------------------|------------------------------|-------|----------------------|-------|
| | | | | |
| Density | lbs/ft ³ | 100 | g/cm ³ | 1.61 |
| Average Particle Size | inches | 0.001 | mm | 0.025 |
| Specific Resistance | 10 ⁻⁴ Ω in. | 5.2 | μΩm | 13.2 |
| Flexural Strength | psi | 3000 | kg/cm ² | 210 |
| Young's Modulus | 10 ⁻⁶ psi | 1.1 | kg/mm ² | 770 |
| Tensile Strength | psi | 2600 | kg/cm ² | 180 |
| Compressive Strength | psi | 6350 | kg/cm ² | 450 |
| Permeability | Darcy | 0.026 | Darcy | 0.026 |
| Hardness | Rockwell "L" | 25 | Rockwell "L" | 25 |
| C.T.E. (to 100 °C) | 10 ⁻⁶ /°F | 1.5 | 10 ⁻⁶ /°C | 2.7 |
| Thermal Conductivity | BTU-ft/hr ft ² °F | 49 | W/mK | 85 |
| Ash Content | % | 0.09 | % | 0.09 |

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