



Graphite Material Datasheet

AR-06

AR-06 is a fine grain, molded graphite material, and the properties are isotropic.

Common Material Applications: EDM Applications

Material Properties & Characteristics

Grain Type:	Fine Grain
Form Process:	Molded Graphite
Special Treatments:	None
Avg. Particle Size:	.000472" [12 μ]
Bulk Density:	1.78 g/cm ³
Shore Hardness:	55 Shore
Electrical Resistivity:	539 μΩ-inch
Flexural Strength:	6,500 lbs/in ²
Compressive Strength:	14,300 lbs/in ²
Tensile Strength:	4,200 lbs/in ²
Young's Modulus:	9.8 GPa
Thermal Conductivity:	95.0 W/m•°K
Thermal Expansion [CTE]: 752 - 932 °F	2.89 x10-6 /°F
Ash Content:	400 ppm
Porosity:	12%
Max. Inert Temperature	5,000° F

all material specifications presented are considered typical from each of the manufacturers and/or distributors