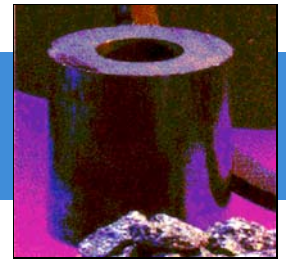


GRAPHITE PLATES, RODS, AND MACHINED PARTS



Asbury provides industry with graphite plates rods and machined parts. Long recognized as a leader in it's field, Asbury has been a major supplier of graphite and carbon related products to U.S. industry since 1895. Our experience, versatility, and Technical Service can assist you in adapting our products to your specific requirements.

Grade

PL or RD 850

Densified prior to Graphitization, grade PL or RD 850 is an extruded graphite higher in strength than our standard extruded grades. Grade PL or RD 850 is also a low ash graphite with good oxidation resistance. It is the material of choice for applications requiring higher densities, better mechanical strength or less porosity than our Grade 800.

IPG

Grade IPG is an isostatically molded fine grain, high strength material with excellent thermal conductivity and expansion properties. Grade IPG can be machined to close precision tolerances with very sharp detail and fine surface finish.

PL or RD 800

PL-800 is a graphitized material with minimum porosity and high density which makes it easy to machine to precision dimensions. It's electrical and thermal properties qualify PL-800 for high conductivity and resistance to temperature changes and shock. It has a remarkably stable coefficient of expansion. Mechanically, it's tensile and shear strengths adequately meet most requirements. Chemically, it is free of plain carbon and normally runs up to 99.9% pure graphite. Graphite's inert properties account for it's broad use in place of other materials. Lubricity is also an outstanding property of PL-800 which makes it useful in almost endless varieties of lubrication applications exposed to unusual conditions.

PL or RD 750

An economical grade used where graphite's durability and lubrication qualities are desired – e.g. plates for extrusion run-out tables, lubricating and sealing plates, discs, etc.

*Purified, high density, mini-rods and EDM graphite are also available

	PL or RD 850	IPG	PL or RD 800	PL or RD 750
Max. Grain Size (in.)	0.030	0.0022	0.030	0.060
Density (g/cc)	1.75	1.73	1.60	1.63
Specific Resistance (ohm - inch)	26×10^{-5}	55×10^{-5}	33×10^{-5}	32×10^{-5}
Flexural Strength (psi)	2900	6500	2000	1800
Tensile Strength (psi)	2300	3900	1500	1200
Compressive Strength (psi)	6000	13000	4100	3600
Modulus of Elasticity (10^6 psi)	1.7	1.6	1.3	1.3
CTE $\times 10^{-7}$ per, °F	8	16	8	8
Thermal Conductivity (BTU – ft/hr ft ² °F)	113	52	90	90
Max Ash (%)	0.09	0.2	0.1	0.5



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Asbury is the world's largest processor of graphite and other carbonaceous products.

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