



BOEDEKER PLASTICS, INC.



CIP Composite™ Bearing Material

Ideal for Replacing Bronze

Formulated for High Load | Low Speed Applications



About CIP Composites

CIP Composites are laminated polymer materials made by impregnating textiles with thermosetting resins. Solid lubricants are added to the resin to provide evenly dispersed lubrication throughout the material, inherently eliminating the need for external lubrication. Boedeker Plastics offers CIP Composites in an array of different textile, lubricant and resin combinations. We can determine the best combination based on your application criteria.

Industries

Alternative Energy
Marine

Industrial
Oil & Gas

Heavy Equipment
Pump & Valve

Applications

bearings & bushings
machined components

wear pads
thrust washers

wear rings
insulation/isolation

Advantages

- Self-lubricating
- High compressive strength (50,000 psi)
- High load capacity and shock load resistant
- Low coefficient of friction
- Long service life
- Environmentally friendly
- Stable in fresh or salt water environments
- Low moisture absorption
- Nonabrasive to mating surfaces
- Temp. range -40°F to 400°F
- 100% bearing material
- Made in the USA

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904 WEST 6TH STREET, SHINER, TX 77984 | 800.444.3485 | WWW.BOEDEKER.COM | RFQ@BOEDEKER.COM

CIP STANDARD SIZES & PROPERTIES

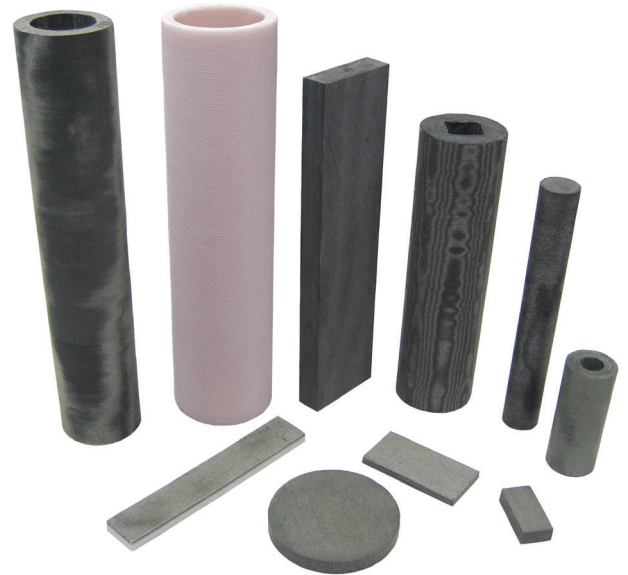
Standard Shapes

Tubes

Minimum Bore	1/2 in. (13 mm)
Maximum Bore	60 in. (1524 mm)
Standard Lengths	16 in. – 24 in. – 32 in. (406 mm – 609 mm – 812 mm)

Sheets

Minimum Thickness	1/8 in. (1.6 mm)
Maximum Thickness	6 in. (152 mm)
Standard Widths	16 in. – 24 in. – 32 in. (406 mm – 609 mm – 812 mm)
Standard Lengths	24 in. – 36 in. – 48 in. – 60 in. (609 mm – 914 mm – 1219 mm)



Specializing in large diameters



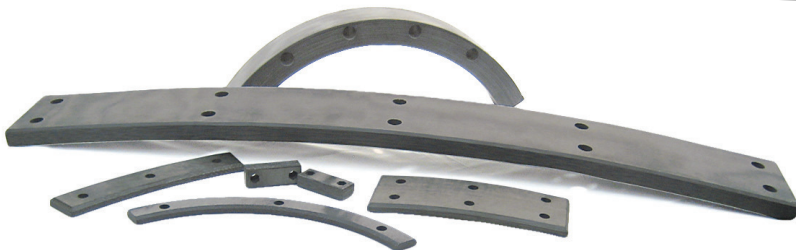
Physical Properties

Compressive Strength

Ultimate	50,000 PSI (345 MPa)
Yield	15,000 PSI (103 MPa)
Tensile Strength	11,000 PSI (75 MPa)
Rockwell Hardness	100 M
Density	.047 lbs/in ³ (1.3 g/cm ³)
Water Swell	<0.15%

Operating Temperatures

CIP 100/200 Series	-40° to 200°F (-40° to 93°C)
CIP 300 Series	-40° to 400°F (-40° to 204°C)



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