

CIP Marine™

CIP Marine is manufactured with polyester textile and a high grade marine polyester resin with the solid lubrication additives PTFE and molybdenum disulfide (MoS₂) evenly dispersed throughout the resin.

The superior marine resin offers better chemical resistance and improved physical properties over CIP's standard resin.

Benefits:

- Environmentally friendly
- Self-lubricating
- Suited for fresh or salt water environments
- Low coefficient of friction
- High load capacity
- Negligible water swell

Physical Properties		
Compressive Strength (ASTM D695)		
Ultimate	51,000 PSI	351 MPa
Yield	15,000 PSI	103 MPa
Parallel	13,500 PSI	93 MPa
Modulus	500,000 PSI	3,447 MPa
Tensile Strength (ASTM D638)	12,000 PSI	83 MPa
Tensile Modulus of Elasticity (ASTM D638)	510,000 PSI	3,500 MPa
Poisson's Ratio (ASTM D3039-08)		0.231
Shear Strength (ASTM D2344)	12,000 PSI	82 MPa
Flexural Modulus of Elasticity (ASTM D790)	260,000 PSI	1,793 MPa
Hardness Rockwell M (ASTM D785)		100
Density (ASTM D792)	0.047 lbs/in ³	1.3 g/cm ³
Water Swell (ASTM D570)		<0.15%
Mechanical Properties		
Coefficient of Friction - Dry Dynamic		0.10-0.15
Electrical Properties		
Dielectric Strength (ASTM D149-97a)		200 volts/mil
Volume Resistivity (ASTM D257-07)		4.2 x 10 ¹⁵ ohm-cm
Thermal Properties		
Operating Temperatures	-40° to 200° F	-40° to 93° C
Coefficient of Thermal Expansion		
Normal to Laminate	3.5x10 ⁻⁵ /Δ° F	6.3x10 ⁻⁵ /Δ° C
Parallel to Laminate	1.8x10 ⁻⁵ /Δ° F	3.24x10 ⁻⁵ /Δ° C

*CIP Composites do not contain asbestos **Properties based on sheet material

**CIPMarine is Type Approved by
ABS (American Bureau of Shipping)
and RINA for Stern Tube Bearings
and Rudder Bearings**



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