

CIP252 / CIP252A / CIP252B

CIP252 is manufactured with polyester and PTFE combined 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.

Enhancement A and enhancement B are optional additives that increase the overall strength and reduce friction and wear. Enhancement B is specified when stick-slip or noise may be anticipated.

Benefits:

- Self-lubricating
- Low coefficient of friction
- High edge and shock load capabilities
- Low thermal expansion rate
- Negligible water swell
- Suited for fresh or salt water environments

| 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 | 82 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 | | 0.05-0.10 |
| 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

CIP252 offers a low maintenance and cost effective solution for eliminating external lubrication without compromising performance



ADVANCED SEALING TECHNOLOGY 

Advanced Sealing Technology B.V.
0031 164 743 113

Info@advancedsealingtechnology.nl