

CIP Composites 200 Series Laminated Polymer Bearing Material

Category : Polymer , Thermoset

Material Notes:

The 200 series consists of PTFE/polyester combination fabric and one of several solid lubricants (optional) in a resin matrix. Non-metallic, high load, high impact and self lubricating laminated material. Laminated polymer material made by impregnating textile with a thermoset resin. CIP Composites™ offer design engineers an attractive, cost effective alternative to the traditional materials used for bushings, bearings, wear pads, and thrust washers, such as bronze, brass or nylon. CIP Composites™ are only 1/6 the weight of steel, easily machined, have good dimensional stability and do not contain harmful or toxic materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CIP-Composites-200-Series-Laminated-Polymer-Bearing-Material.php

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|---------------|---------------|---|
| Coefficient of Friction, Dynamic | 0.0500 - 0.09 | 0.0500 - 0.09 | Dry, Grade CIP 251 (MoS2 + PTFE Filled) |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---|---|----------------------|
| CTE, linear, Parallel to Flow | 32.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 17.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ | Parallel to Laminate |
| | @Temperature 20.0 - 93.3 °C | @Temperature 68.0 - 200 °F | |
| CTE, linear, Transverse to Flow | 63.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 35.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ | Normal to Laminate |
| | @Temperature 20.0 - 93.3 °C | @Temperature 68.0 - 200 °F | |
| Maximum Service Temperature, Air | 93.3 °C | 200 °F | |
| Minimum Service Temperature, Air | -40.0 °C | -40.0 °F | |

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