

CIP Composites 300 Series Laminated Polymer Bearing Material

Category : Polymer , Thermoset

Material Notes:

The 300 series consists of Nomex® 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-300-Series-Laminated-Polymer-Bearing-Material.php

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Parallel to Laminate
	@Temperature 20.0 - 204 $^{\circ}\text{C}$	@Temperature 68.0 - 400 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Normal to Laminate
	@Temperature 20.0 - 204 $^{\circ}\text{C}$	@Temperature 68.0 - 400 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	204 $^{\circ}\text{C}$	400 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-40.0 $^{\circ}\text{C}$	-40.0 $^{\circ}\text{F}$	

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