

MMCC Cu/B4C Particulate Copper Matrix Composite

Category : Ceramic , Carbide , Metal , Metal Matrix Composite , Nonferrous Metal , Copper Alloy

Material Notes:

Cast, discontinuously reinforced aluminum matrix composite. May be fabricated by vacuum infiltration of the ceramic preform. Data provided by the manufacturer, Metal Matrix Cast Composites (MMCC).

Order this product through the following link:

http://www.lookpolymers.com/polymer_MMCC-CuB4C-Particulate-Copper-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	5.40 g/cc	0.195 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 - 500 MPa	43500 - 72500 psi	
Modulus of Elasticity	250 GPa	36300 ksi	Youngs Modulus

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	120 W/m-K	833 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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