

MMCC Al/B4C Particulate Aluminum Matrix Composite

Category : Ceramic , Carbide , Metal , Metal Matrix Composite , Nonferrous Metal , Aluminum 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-AIB4C-Particulate-Aluminum-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 - 400 MPa	43500 - 58000 psi	
Modulus of Elasticity	190 - 200 GPa	27600 - 29000 ksi	Youngs Modulus
Fracture Toughness	10.0 - 25.0 MPa-m ^{1/2}	9.10 - 22.8 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 - 10.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 - 5.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	75.0 W/m-K	521 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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