

## MMCC Aluminum/Graphite Fiber GA 7-230 Metal Matrix Composite

Category : Metal , Metal Matrix Composite , Nonferrous Metal

### Material Notes:

Discontinuous graphite fiber aluminum product primarily used for electronic thermal management applications. Lightweight, high damping, stiffer than aluminum, matched cte, easily machined and plated, superior thermal conductivity, non-carcinogenic. As power densities increase, reducing or eliminating thermal mismatch strains in an electronic assembly improve system reliability and performance. MMCC's graphite fiber reinforced aluminum and copper products cover a wide spectrum of substrate and IC packaging requirements. Data provided by the manufacturer, Metal Matrix Cast Composites (MMCC).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MMCC-AluminumGraphite-Fiber-GA-7-230-Metal-Matrix-Composite.php](http://www.lookpolymers.com/polymer_MMCC-AluminumGraphite-Fiber-GA-7-230-Metal-Matrix-Composite.php)

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	76.9 MPa	11200 psi	
Modulus of Elasticity	89.0 GPa	12900 ksi	Young's Modulus
Flexural Yield Strength	159 MPa	23100 psi	Flexural Strength
Compressive Yield Strength	109 MPa	15800 psi	
Ultimate Compressive Strength	202 MPa	29300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.50 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.17 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	x-y direction
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	190 W/m-K	1320 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	z direction
	200 W/m-K	1390 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	x-y directions

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000689 ohm-cm	0.00000689 ohm-cm	

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