

## MMCC Al/Al<sub>2</sub>O<sub>3</sub> Short Fiber Aluminum Matrix Composite

Category : Ceramic , Oxide , Aluminum Oxide , 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-AlAl<sub>2</sub>O<sub>3</sub>-Short-Fiber-Aluminum-Matrix-Composite.php](http://www.lookpolymers.com/polymer_MMCC-AlAl2O3-Short-Fiber-Aluminum-Matrix-Composite.php)

Physical Properties	Metric	English	Comments
Density	3.10 g/cc	0.112 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 - 450 MPa	43500 - 65300 psi	
Modulus of Elasticity	120 - 140 GPa	17400 - 20300 ksi	Youngs Modulus
Fracture Toughness	15.0 - 20.0 MPa-m <sup>1/2</sup>	13.7 - 18.2 ksi-in <sup>1/2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	9.44 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 20.0 $\text{C}^\circ$	@Temperature 68.0 $\text{F}^\circ$	
Thermal Conductivity	100 W/m-K	694 BTU-in/hr-ft <sup>2</sup> - $\text{F}^\circ$	

## Contact Songhan Plastic Technology Co.,Ltd.

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