

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

Category : Ceramic , Oxide , Aluminum Oxide , Metal , Metal Matrix Composite , Nonferrous Metal , Aluminum Alloy

### Material Notes:

Cast, 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-AlAl2O3-Continuous-Fiber-Aluminum-Matrix-Composite.php](http://www.lookpolymers.com/polymer_MMCC-AlAl2O3-Continuous-Fiber-Aluminum-Matrix-Composite.php)

Physical Properties	Metric	English	Comments
Density	3.50 g/cc	0.126 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1200 - 1400 MPa	174000 - 203000 psi	
Modulus of Elasticity	290 - 310 GPa	42100 - 45000 ksi	Youngs Modulus

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 - 12.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.56 - 6.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	80.0 W/m-K	555 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	

## Contact Songhan Plastic Technology Co.,Ltd.

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