

MMCC Aluminum/Al2O3 55p Aluminum Matrix Composite

Category : Metal , Metal Matrix Composite , Nonferrous Metal

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-AluminumAl2O3-55p-Aluminum-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	3.46 g/cc	0.125 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	380 MPa	55100 psi	
Modulus of Elasticity	167 GPa	24200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	7.33 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.831 J/g- $\text{Å}^\circ\text{C}$	0.199 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	88.5 W/m-K	614 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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