

MMCC Aluminum/SiC 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-AluminumSiC-55p-Aluminum-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	2.97 g/cc	0.107 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	350 MPa	50800 psi	
Modulus of Elasticity	183 GPa	26500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.796 J/g- $\text{Å}^\circ\text{C}$	0.190 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	190 W/m-K	1320 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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