

MMCC Al/SiC 3DP Particulate Aluminum Matrix Composite

Category : Ceramic , Carbide , 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-AlSiC-3DP-Particulate-Aluminum-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 - 500 MPa	43500 - 72500 psi	
Modulus of Elasticity	150 - 170 GPa	21800 - 24700 ksi	Youngs Modulus
Fracture Toughness	15.0 - 25.0 MPa-m ^{1/2}	13.7 - 22.8 ksi-in ^{1/2}	

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	220 W/m-K	1530 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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