

MMCC Al/SiC 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-Particulate-Aluminum-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	2.90 g/cc	0.105 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 - 450 MPa	43500 - 65300 psi	
Modulus of Elasticity	180 - 200 GPa	26100 - 29000 ksi	Youngs Modulus
Fracture Toughness	10.0 - 25.0 MPa-m ^{1/2}	9.10 - 22.8 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 - 10.0 Åm/m-Å°C	4.44 - 5.56 Åin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Thermal Conductivity	220 W/m-K	1530 BTU-in/hr-ft ² -Å°F	

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