

MMCC Al/Al₂O₃ Particulate Aluminum Matrix Composite

Category : Ceramic , Oxide , Aluminum Oxide , 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-AlAl2O3-Particulate-Aluminum-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 - 500 MPa	43500 - 72500 psi	
Modulus of Elasticity	170 - 190 GPa	24700 - 27600 ksi	Youngs Modulus
Fracture Toughness	15.0 - 30.0 MPa-m ^{1/2}	13.7 - 27.3 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 - 14.0 Åµm/m-Å°C	6.67 - 7.78 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Thermal Conductivity	55.0 W/m-K	382 BTU-in/hr-ft ² -Å°F	

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