

Goodfellow Aluminum-Copper/SiC Metal Matrix Composite

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Aluminum Alloy

Material Notes:

Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Aluminum-CopperSiC-Metal-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	2.85 g/cc	0.103 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	610 MPa	88500 psi	Longitudinal
Tensile Strength, Yield	400 MPa	58000 psi	
Elongation at Break	6.0 %	6.0 %	
Tensile Modulus	100 GPa	14500 ksi	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	77.9 %	77.9 %	
Copper, Cu	3.3 %	3.3 %	
Magnesium, Mg	1.2 %	1.2 %	
Manganese, Mn	0.40 %	0.40 %	
SiC	17.8 %	17.8 %	

Descriptive Properties	Value	Comments
Volume Fraction SiC, %	17	

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