

Goodfellow Aluminum-Lithium/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-LithiumSiC-Metal-Matrix-Composite.php

Physical Properties	Metric	English	Comments
Density	2.62 g/cc	0.0947 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	550 MPa	79800 psi	Longitudinal
Tensile Strength, Yield	500 MPa	72500 psi	
Elongation at Break	2.3 %	2.3 %	
Tensile Modulus	100 GPa	14500 ksi	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	81 %	81 %	
Copper, Cu	1.2 %	1.2 %	
Lithium, Li	2.0 %	2.0 %	
Magnesium, Mg	0.80 %	0.80 %	
SiC	15 %	15 %	

Descriptive Properties	Value	Comments
Volume Fraction SiC, %	13	

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