

Alliance BIF-17 Bonded (Composite) Magnetic Material

Category : Ceramic , Metal , Electronic/Magnetic Alloy

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-BIF-17-Bonded-Composite-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	2.60 - 3.60 g/cc	0.0939 - 0.130 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	30.0 - 80.0 MPa	4350 - 11600 psi	
Modulus of Elasticity	4.00 - 5.50 GPa	580 - 798 ksi	
Flexural Strength	50.0 - 100 MPa	7250 - 14500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 - 50.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	16.7 - 27.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	Parallel DOM
Specific Heat Capacity	$\leq 0.200 \text{ J}/\text{g}\cdot\text{°C}$	$\leq 0.0478 \text{ BTU}/\text{lb}\cdot\text{°F}$	
Maximum Service Temperature, Air	160 °C	320 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \text{ ohm}\cdot\text{cm}$	$\geq 1.00 \text{ ohm}\cdot\text{cm}$	
Magnetic Coercive Force, Hc	2400 Oe	2400 Oe	
	2800 Oe	2800 Oe	Intrinsic
Magnetic Remanence, Br	3000 Gauss	3000 Gauss	
Magnetic Maximum Energy Product, BH	2.2 MGOe	2.2 MGOe	
Curie Temperature	450 °C	842 °F	

Descriptive Properties	Value	Comments
Reversible Temp Coef., Bd	-0.20 $\%/^{\circ}\text{C}$	
Reversible Temp Coef., Hd	+0.27 $\%/^{\circ}\text{C}$	
Temperature Coefficient, Br	-0.2 $\%/^{\circ}\text{C}$	(20-100 °C)

Descriptive Properties	Value, /°C	Comments
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