

Alliance BIF-19 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-19-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 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	16.7 - 27.8 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	Parallel DOM
Specific Heat Capacity	$\leq 0.200 \text{ J/g-}^{\circ}\text{C}$	$\leq 0.0478 \text{ BTU/lb-}^{\circ}\text{F}$	
Maximum Service Temperature, Air	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \text{ ohm-cm}$	$\geq 1.00 \text{ ohm-cm}$	
Magnetic Coercive Force, Hc	2250 Oe	2250 Oe	
	2580 Oe	2580 Oe	Intrinsic
Magnetic Remanence, Br	3100 Gauss	3100 Gauss	
Magnetic Maximum Energy Product, BH	2.3 MGOe	2.3 MGOe	
Curie Temperature	450 $^{\circ}\text{C}$	842 $^{\circ}\text{F}$	

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 $^{\circ}\text{C}$)

Descriptive Properties	Value	Comments
------------------------	-------	----------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China