

Alliance BCN-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-BCN-17-Bonded-Composite-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	5.60 - 6.00 g/cc	0.202 - 0.217 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	37.0 MPa	5370 psi	
Modulus of Elasticity	0.700 - 1.00 GPa	102 - 145 ksi	
Compressive Strength	80.0 - 120 MPa	11600 - 17400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 - 30.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	5.56 - 16.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Parallel DOM
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	0.400 J/g- $^{\circ}\text{C}$	0.0956 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00100 - 0.00300 ohm-cm	0.00100 - 0.00300 ohm-cm	
Magnetic Coercive Force, Hc	5200 Oe	5200 Oe	Intrinsic
	8850 Oe	8850 Oe	
Magnetic Remanence, Br	6250 Gauss	6250 Gauss	
Magnetic Maximum Energy Product, BH	8.4 MGOe	8.4 MGOe	
Curie Temperature	300 - 470 $^{\circ}\text{C}$	572 - 878 $^{\circ}\text{F}$	

Descriptive Properties	Value	Comments
Reversible Temp Coef., Bd	-0.12 %/ $^{\circ}\text{C}$	

Reversible Temp Cnfg., Hd Descriptive Properties	-0.43 %/°C Value	Comments
Temperature Coefficient, Br	-0.11 %/°C	(20-100°C)
Temperature Coefficient, Hci	-0.39 %/°C	(20-100°C)

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