

Alliance BCN-15 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-15-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 $\cdot^\circ\text{C}$	0.0956 BTU/lb $\cdot^\circ\text{F}$	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft ² $\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	160 $^\circ\text{C}$	320 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00100 - 0.00300 ohm-cm	0.00100 - 0.00300 ohm-cm	
Magnetic Coercive Force, Hc	5500 Oe	5500 Oe	
	12500 Oe	12500 Oe	Intrinsic
Magnetic Remanence, Br	6300 Gauss	6300 Gauss	
Magnetic Maximum Energy Product, BH	8.7 MGOe	8.7 MGOe	
Curie Temperature	300 - 470 $^\circ\text{C}$	572 - 878 $^\circ\text{F}$	

Descriptive Properties	Value	Comments
Reversible Temp Coef., Bd	-0.14 %/ $^\circ\text{C}$	

Reversible Temp Cntrl. Hd Descriptive Properties	-0.36 %/°C Value	Comments
Temperature Coefficient, Br	-0.11 %/°C	(20-100°C)
Temperature Coefficient, Hci	-0.39 %/°C	(20-100°C)

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