

Alliance BIN-45 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-BIN-45-Bonded-Composite-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	4.50 - 5.50 g/cc	0.163 - 0.199 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	25.0 - 40.0 MPa	3630 - 5800 psi	
Flexural Strength	60.0 - 80.0 MPa	8700 - 11600 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 80.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 - 44.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Parallel DOM
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00400 - 0.00700 ohm-cm	0.00400 - 0.00700 ohm-cm	
Magnetic Coercive Force, Hc	4500 Oe	4500 Oe	
	10600 Oe	10600 Oe	Intrinsic
Magnetic Remanence, Br	5000 Gauss	5000 Gauss	
Magnetic Maximum Energy Product, BH	5.7 MGOe	5.7 MGOe	
Curie Temperature	300 - 470 $^{\circ}\text{C}$	572 - 878 $^{\circ}\text{F}$	

Descriptive Properties	Value	Comments
Reversible Temp Coef., Bd	-0.130 $\%/^{\circ}\text{C}$	
Reversible Temp Coef., Hd	-0.40 $\%/^{\circ}\text{C}$	
Temperature Coefficient, Br	-0.1 $\%/^{\circ}\text{C}$	(20-100 $^{\circ}\text{C}$)
Temperature Coefficient, Hci	-0.4 $\%/^{\circ}\text{C}$	(20-100 $^{\circ}\text{C}$)

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