

Alliance N-50 Neodymium Iron Boron Magnetic Material

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal , Ferritic

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-N-50-Neodymium-Iron-Boron-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	7.50 - 7.80 g/cc	0.271 - 0.282 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	570 - 580	570 - 580	
Tensile Strength, Ultimate	80.0 MPa	11600 psi	
Modulus of Elasticity	150 - 160 GPa	21800 - 23200 ksi	
Flexural Strength	180 - 270 MPa	26100 - 39200 psi	
Compressive Strength	850 - 1050 MPa	123000 - 152000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu\text{m/m-}^{\circ}\text{C}$	2.78 $\mu\text{in/in-}^{\circ}\text{F}$	Parallel DOM
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	-1.00 $\mu\text{m/m-}^{\circ}\text{C}$	-0.556 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 23.0 $^{\circ}\text{C}$	@Temperature 73.4 $^{\circ}\text{F}$	
Specific Heat Capacity	0.440 J/g- $^{\circ}\text{C}$	0.105 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	9.00 W/m-K	62.5 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000120 - 0.000160 ohm-cm	0.000120 - 0.000160 ohm-cm	
Magnetic Coercive Force, Hc	10500 Oe	10500 Oe	Intrinsic
	12000 Oe	12000 Oe	
Magnetic Remanence, Br	14200 Gauss	14200 Gauss	
Magnetic Maximum Energy Product, BH	47 - 51 MGOe	47 - 51 MGOe	

Electrical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Reversible Temp Coef., Bd		-0.12 %/°C	
Reversible Temp Coef., Hd		-0.60 %/°C	
Temperature Coefficient, Br		-0.11 %/°C	(20-100°C)
Temperature Coefficient, Hci		-0.72 %/°C	(20-100°C)

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