

Alliance C-7 Strontium Ferrite Ceramic Magnetic Material

Category : Ceramic , Oxide

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-C-7-Strontium-Ferrite-Ceramic-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	4.80 - 5.00 g/cc	0.173 - 0.181 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	450 - 580	450 - 580	
Tensile Strength, Ultimate	20.0 - 50.0 MPa	2900 - 7250 psi	
Modulus of Elasticity	150 GPa	21800 ksi	
Flexural Strength	55.0 MPa	7980 psi	
Compressive Strength	700 MPa	102000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 - 9.50 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.00 - 5.28 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Parallel DOM
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	8.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 23.0 $^\circ\text{C}$	@Temperature 73.4 $^\circ\text{F}$	
Maximum Service Temperature, Air	350 $^\circ\text{C}$	662 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \text{ ohm}\cdot\text{cm}$	$\geq 1.00 \text{ ohm}\cdot\text{cm}$	
Magnetic Coercive Force, Hc	3150 Oe	3150 Oe	Intrinsic
	4200 Oe	4200 Oe	
Magnetic Remanence, Br	3400 Gauss	3400 Gauss	
Magnetic Maximum Energy Product, BH	2.8 MGOe	2.8 MGOe	
Curie Temperature	450 $^\circ\text{C}$	842 $^\circ\text{F}$	

Descriptive Properties	Value	Comments
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Reversible Temp Coef., Hd	+0.35 %/°C	
Temperature Coefficient, Br	-0.18 %/°C	(20-100°C)
Temperature Coefficient, Hci	+0.4 %/°C	(20-100°C)

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