

CeramTec Rubalit® 708 Alumina, 96%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Based on 96% aluminum oxide, Rubalit® 708 was developed specifically for making heavy-duty resistors and miniature metal layer resistors. Because of its outstanding strength, this same material is also used for precision wire-wound resistors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-Rubalit-708-Alumina-96.php

Physical Properties	Metric	English	Comments
Density	3.75 g/cc	0.135 lb/in ³	
Water Absorption	0.00 %	0.00 %	ASTM-C373

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	78	78	ASTM-E18
Flexural Strength	420 MPa	60900 psi	Bending Strength; ASTM-F417

Thermal Properties	Metric	English	Comments
CTE, linear	4.40 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	2.44 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	ASTM-C372
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
	6.30 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	3.50 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	ASTM-C372
	@Temperature 20.0 - 300 $^\circ\text{C}$	@Temperature 68.0 - 572 $^\circ\text{F}$	
	7.30 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	4.06 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	ASTM-C372
	@Temperature 20.0 - 600 $^\circ\text{C}$	@Temperature 68.0 - 1110 $^\circ\text{F}$	
	8.00 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	4.44 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	ASTM-C372
	@Temperature 20.0 - 1000 $^\circ\text{C}$	@Temperature 68.0 - 1830 $^\circ\text{F}$	
Thermal Conductivity	24.0 W/m-K	167 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM-C408
Maximum Service Temperature, Air	1400 $^\circ\text{C}$	2550 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	96 %	96 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	ASTM-D1829
	@Temperature 600 °C	@Temperature 1110 °F	
	1.00e+11 ohm-cm	1.00e+11 ohm-cm	ASTM-D1829
	@Temperature 400 °C	@Temperature 752 °F	
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM-D257
	@Temperature 200 °C	@Temperature 392 °F	
Dielectric Strength	>= 10.0 kV/mm	>= 254 kV/in	ASTM-D149

Descriptive Properties	Value	Comments
Color	White	
Ra = Arithmetic Mean Roughness Value (µm)	0.25-0.35	
Te Value (°C)	900	

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