

CeramTec Rubalit® 702 Alumina, 85%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Rubalit® 702 is a high-performance material for the manufacturing of metal-film resistors. With an alumina content of 85%, it provides extreme hardness and high thermal conductivity. Practical applications have shown that Rubalit® 702 is capable of diffusing as much heat as the cap and film. Its extreme hardness necessitates laser trimming of the film material.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-Rubalit-702-Alumina-85.php

Physical Properties	Metric	English	Comments
Density	3.55 g/cc	0.128 lb/in ³	DIN EN 623-2 / ASTM-C373 / ASTM-C20
Water Absorption	0.00 %	0.00 %	DIN EN 623-2 / ASTM-C373

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	73	73	ASTM-E18
Vickers Microhardness	73	73	HV 0.5; DINV ENV 843-4
Flexural Strength	390 MPa	56600 psi	20 x 40 mm

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 µm/m-°C	2.50 µin/in-°F	ASTM-C372
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
	6.20 µm/m-°C	3.44 µin/in-°F	ASTM-C372
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
	7.00 µm/m-°C	3.89 µin/in-°F	ASTM-C372
	@Temperature 20.0 - 600 °C	@Temperature 68.0 - 1110 °F	
	7.80 µm/m-°C	4.33 µin/in-°F	ASTM-C372
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	16.0 W/m-K	111 BTU-in/hr-ft ² -°F	DIN EN 821-2 / ASTM-C408
Maximum Service Temperature, Air	1350 °C	2460 °F	

Component Elements Properties	Metric	English	Comments
-------------------------------	--------	---------	----------

Component Elements Properties	Metric	English	Comments
-------------------------------	--------	---------	----------

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+10 ohm-cm	1.00e+10 ohm-cm	
	@Temperature 400 °C	@Temperature 752 °F	ASTM-D1829
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
	@Temperature 200 °C	@Temperature 392 °F	
Dielectric Constant	8.0	8.0	IEC 672-1 / ASTM-C150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	>= 10.0 kV/mm	>= 254 kV/in	ASTM-D150
Dielectric Loss Index	0.0010	0.0010	IEC 672-1 / ASTM-D149,150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Color	White	
Ra = Arithmetic Mean Roughness Value (μm)	0.2-0.3	
Te Value (°C)	850	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China