

CeramTec Rubalit® 600 Alumina, 48%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Rubalit® 600 is suitable for both mechanical and laser trimming and is chiefly used as the core for high-grade carbon-film resistors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-Rubalit-600-Alumina-48.php

Physical Properties	Metric	English	Comments
Density	2.90 g/cc	0.105 lb/in ³	
Water Absorption	0.00 %	0.00 %	ASTM-C373

Mechanical Properties	Metric	English	Comments
Flexural Strength	210 MPa	30500 psi	Bending Strength; ASTM-F417

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	
	5.30 µm/m-°C	2.94 µin/in-°F	ASTM-C372
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
6.10 µm/m-°C	@Temperature 20.0 - 600 °C	3.39 µin/in-°F	ASTM-C372
		@Temperature 68.0 - 1110 °F	
6.20 µm/m-°C	@Temperature 20.0 - 1000 °C	3.44 µin/in-°F	ASTM-C372
		@Temperature 68.0 - 1830 °F	
Thermal Conductivity	3.50 W/m-K	24.3 BTU-in/hr-ft ² -°F	ASTM-C408
Maximum Service Temperature, Air	1150 °C	2100 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	48 %	48 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	ASTM-D1829
	@Temperature 600 °C	@Temperature 1110 °F	

Electrical Properties	Metric	English	Comments
	1.00e+9 ohm-cm	1.00e+9 ohm-cm	ASTM-D1829
	@Temperature 400 °C	@Temperature 752 °F	
	1.00e+11 ohm-cm	1.00e+11 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)	0.3-0.5	
Te Value (°C)	700	

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