

CeramTec Rubalit® 708S Alumina, 96%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Rubalit® 708S (96%) is an alumina that features high strength and thermal conductivity. It provides outstanding results when used on commercially available thick-film pastes and metallization systems.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	3.78 g/cc	0.137 lb/in³	DIN EN 623-2 / ASTM-C373 / ASTM-C20
Water Absorption	0.00 %	0.00 %	DIN EN 623-2 / ASTM-C373
Particle Size	3.0 - 5.0 µm	3.0 - 5.0 µm	Median Grain (d50)

Mechanical Properties	Metric	English	Comments
Tensile Modulus	340 GPa	49300 ksi	Young's; DINV ENV 843-2 / ASTM-F417
Flexural Strength	400 MPa	58000 psi	Bending Strength; 4-Point Method (40x4x3 mm³); ASTM-F417
	500 MPa	72500 psi	Bending Strength; Dual Ring Method (0.63 mm Substrate Thickness); DIN 52292

Thermal Properties	Metric	English	Comments
CTE, linear	6.80 µm/m-°C	3.78 µin/in-°F	ASTM-C373
	@ Temperature 20.0 - 200 °C	@ Temperature 68.0 - 392 °F	
	7.30 µm/m-°C	4.06 µin/in-°F	
	@ Temperature 20.0 - 600 °C	@ Temperature 68.0 - 1110 °F	
	8.00 µm/m-°C	4.44 µin/in-°F	
	@ Temperature 20.0 - 1000 °C	@ Temperature 68.0 - 1830 °F	
Specific Heat Capacity	0.800 J/g-°C	0.191 BTU/lb-°F	DINV ENV 821-3
	@ Temperature 100 - 200 °C	@ Temperature 212 - 392 °F	
Thermal Conductivity	24.0 W/m-K	167 BTU-in/hr-ft²-°F	DIN EN 821-2 / ASTM-C408

Component Elements Properties	Metric	English	Comments
Al2O3	96 %	96 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
	@Temperature 900 °C	@Temperature 1650 °F	
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
	@Temperature 500 °C	@Temperature 932 °F	
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM-D257
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Dielectric Constant	9.8	9.8	IEC 672-1 / ASTM-C150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	10	10	IEC 672-1 / ASTM-C150
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
Dielectric Breakdown	7000 V	7000 V	
	@Thickness 0.250 mm	@Thickness 0.00984 in	
	12600 V	12600 V	
	@Thickness 0.630 mm	@Thickness 0.0248 in	
	15000 V	15000 V	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dielectric Loss Index	0.00030	0.00030	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)	Profilometer (0.8 mm Cutoff)	

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