

CeramTec Rubalit® 710 Alumina, 99.6%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Rubalit® 710 (99.6%) is an alumina that produces optimum results and is considered the material of choice for thin-film technology. Its characterizing features are high strength and thermal conductivity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-Rubalit-710-Alumina-996.php

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in ³	DIN EN 623-2 / ASTM-C373 / ASTM-C20
Water Absorption	0.00 %	0.00 %	DIN EN 623-2 / ASTM-C373
Particle Size	2.0 µm	2.0 µm	Median Grain (d50)

Mechanical Properties	Metric	English	Comments
Tensile Modulus	350 GPa	50800 ksi	Young's; DINV ENV 843-2 / ASTM-F417
Flexural Strength	400 MPa	58000 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	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
	7.50 µm/m-°C	4.17 µin/in-°F	ASTM-C373
	@Temperature 20.0 - 600 °C	@Temperature 68.0 - 1110 °F	
	8.50 µm/m-°C	4.72 µin/in-°F	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	28.0 W/m-K	194 BTU-in/hr-ft ² -°F	DIN EN 821-2 / ASTM-C408

Component Elements Properties	Metric	English	Comments
Al2O3	99.6 %	99.6 %	

Electrical Properties	Metric	English	Comments
	1.00e+9 ohm-cm	1.00e+9 ohm-cm	

Volume Resistivity Electrical Properties	Metric @ Temperature 900 °C	English @ Temperature 1650 °F	Comments
	1.00e+13 ohm-cm @Temperature 25.0 °C	1.00e+13 ohm-cm @Temperature 77.0 °F	ASTM-D257
	1.00e+13 ohm-cm @Temperature 500 °C	1.00e+13 ohm-cm @Temperature 932 °F	
Dielectric Constant	10.1 @Frequency 1.00e+6 Hz	10.1 @Frequency 1.00e+6 Hz	IEC 672-1 / ASTM-C150
	10.1 @Frequency 1.00e+9 Hz	10.1 @Frequency 1.00e+9 Hz	IEC 672-1 / ASTM-C150
Dielectric Breakdown	>= 10000 V @Thickness 1.00 mm	>= 10000 V @Thickness 0.0394 in	
Dielectric Loss Index	0.00020 @Frequency 1.00e+6 Hz	0.00020 @Frequency 1.00e+6 Hz	IEC 672-1 / ASTM-D149,150

Descriptive Properties	Value	Comments
Color	White	
Ra = Arithmetic Mean Roughness Value (µm)	Profilometer (0.8 mm Cutoff)	
Te Value (°C)	> 1000	

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