

CoorsTek AD-996 99.6% Alumina

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_CoorsTek-AD-996-996-Alumina.php

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in ³	ASTM-C 20
Particle Size	6.0 μm	6.0 μm	Average Crystal Size; THIN-SECTION

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	83	83	
Modulus of Elasticity	370 GPa	53700 ksi	ASTM-C848
Flexural Strength	379 MPa	55000 psi	MOR; ASTM-F417
Compressive Strength	2600 MPa	377000 psi	ASTM-C773
Poissons Ratio	0.22	0.22	ASTM-C848
Fracture Toughness	4.00 - 5.00 MPa-m ^{1/2}	3.64 - 4.55 ksi-in ^{1/2}	KIc; Notched Beam
Shear Modulus	152 GPa	22000 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.20 μm/m-°C @Temperature 25.0 - 1000 °C	4.56 μin/in-°F @Temperature 77.0 - 1830 °F	ASTM-C372
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft ² -°F	ASTM-C408
Maximum Service Temperature, Air	1750 °C	3180 °F	NO-LOAD COND.

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	99.6 %	99.6 %	Nominal

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+6 ohm-cm @Temperature 1000 °C	2.00e+6 ohm-cm @Temperature 1830 °F	ASTM-D1829
	2.00e+10 ohm-cm	2.00e+10 ohm-cm	

Electrical Properties	Metric	English	ASTM-D1829 Comments
	>= 1.00e+14 ohm-cm @Temperature 500 °C	>= 1.00e+14 ohm-cm @Temperature 932 °F	ASTM-D1829
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Ivory	
Thermal Shock Resistance (°C)	200	ΔTc

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