

Misumi Alumina 96 Aluminum Oxide, Al2O3

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Information provided by MISUMI Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Misumi-Alumina-96-Aluminum-Oxide-Al2O3.php

Physical Properties	Metric	English	Comments
Density	3.70 g/cc	0.134 lb/in ³	
Water Absorption	0.000 %	0.000 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	300 MPa	43500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.30 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.06 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 500 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 932 $\text{Å}^\circ\text{F}$	
	8.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 800 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1470 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	18.0 W/m-K	125 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Melting Point	2050 $\text{Å}^\circ\text{C}$	3720 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1300 $\text{Å}^\circ\text{C}$	2370 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al2O3	96.0 %	96.0 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+14$ ohm-cm	$\geq 1.00\text{e}+14$ ohm-cm	
Dielectric Constant	9.00	9.00	
Dielectric Strength	≥ 10.0 kV/mm	≥ 254 kV/in	
Dielectric Loss Index	0.000100	0.000100	

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