

MarkeTech AO 98 Aluminum Oxide Ceramic Substrate, 98% Purity

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Data provided by the supplier, MarkeTech International. Substrate Specs: Maximum dimensions 4.0 x 6.0 in.. Thickness 0.12-0.60 in.

Surface roughness 0.3 Åµm as fired; 0.075 Åµm lapped; 0.025 Åµm polished.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-AO-98-Aluminum-Oxide-Ceramic-Substrate-98-Purity.php

Physical Properties	Metric	English	Comments
Density	$\geq 3.75 \text{ g/cc}$	$\geq 0.135 \text{ lb/in}^3$	

Mechanical Properties	Metric	English	Comments
Flexural Strength	$\geq 275 \text{ MPa}$	$\geq 39900 \text{ psi}$	

Thermal Properties	Metric	English	Comments
CTE, linear	$\leq 7.70 \text{ Åµm/m-}^{\circ}\text{C}$ @Temperature 20.0 Å°C	$\leq 4.28 \text{ Åµin/in-}^{\circ}\text{F}$ @Temperature 68.0 Å°F	
Thermal Conductivity	24.0 W/m-K	167 BTU-in/hr-ftÅ²-Å°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+13 \text{ ohm-cm}$	$\geq 1.00\text{e}+13 \text{ ohm-cm}$	
Dielectric Constant	9.8 @Frequency 1e+6 Hz	9.8 @Frequency 1e+6 Hz	
Dielectric Strength	$\geq 15.0 \text{ kV/mm}$	$\geq 381 \text{ kV/in}$	1 MHz
Dissipation Factor	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	

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