

MarkeTech AO 95 Aluminum Oxide Ceramic Substrate, 95% 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 μm as fired; 0.075 μm lapped; 0.025 μm polished.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-AO-95-Aluminum-Oxide-Ceramic-Substrate-95-Purity.php

Physical Properties	Metric	English	Comments
Density	$\geq 3.65 \text{ g/cc}$	$\geq 0.132 \text{ lb/in}^3$	

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

Thermal Properties	Metric	English	Comments
CTE, linear	$\leq 7.70 \mu\text{m/m-}^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	$\leq 4.28 \mu\text{in/in-}^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	27.0 W/m-K	187 BTU-in/hr-ft 2 - $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+12 \text{ ohm-cm}$	$\geq 1.00\text{e}+12 \text{ ohm-cm}$	
Dielectric Constant	9.2 @Frequency 1e+6 Hz	9.2 @Frequency 1e+6 Hz	
Dielectric Strength	$\geq 15.0 \text{ kV/mm}$	$\geq 381 \text{ kV/in}$	1 MHz
Dissipation Factor	0.00030 @Frequency 1e+6 Hz	0.00030 @Frequency 1e+6 Hz	

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