

MarkeTech AN 160 Aluminum Nitride Ceramic Substrate, 99% Purity

Category : Ceramic , Nitride

Material Notes:

Data provided by the supplier, MarkeTech International. Substrate Specs: Maximum dimensions 5.5 x 3.6 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-AN-160-Aluminum-Nitride-Ceramic-Substrate-99-Purity.php

Physical Properties	Metric	English	Comments
Density	$\geq 3.25 \text{ g/cc}$	$\geq 0.117 \text{ lb/in}^3$	

Mechanical Properties	Metric	English	Comments
Flexural Strength	$\geq 280 \text{ MPa}$	$\geq 40600 \text{ psi}$	

Thermal Properties	Metric	English	Comments
CTE, linear	$\geq 4.30 \mu\text{m/m-}^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	$\geq 2.39 \mu\text{in/in-}^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	140 - 170 W/m-K	972 - 1180 BTU-in/hr-ft 2 - $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+14 \text{ ohm-cm}$	$\geq 1.00\text{e}+14 \text{ ohm-cm}$	
Dielectric Constant	8.7 @Frequency 1e+6 Hz	8.7 @Frequency 1e+6 Hz	
Dielectric Strength	$\geq 15.0 \text{ kV/mm}$	$\geq 381 \text{ kV/in}$	1 MHz
Dissipation Factor	0.00030 - 0.00070 @Frequency 1e+6 Hz	0.00030 - 0.00070 @Frequency 1e+6 Hz	

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