



AIN Datasheet

Bulk Density (min)	g/cm ³	3.25
Average Grain Size	μm	4
Flexural Strength, (4-Pt MOR)@RT	MPa	375
Characteristic Strength	MPa	410
Weibull Modulus (m)		12
Elastic Modulus (E)	GPa	330
Poisson's Ratio (ν)		0.23
Hardness (Knoop 0.3 kg)	kg/mm ²	1100
Fracture Toughness (Chevron Notch)	MPa-m ^{1/2}	2.5
Thermal Expansion (RT-1000° C)	10 ⁻⁶ /°C	4.9
Thermal Conductivity @RT	(W/m-K)	80 min.
Dielectric Constant	1mHz	9
Loss Tangent		0.00032

The information contained in this document is believed to be accurate and reliable, but is presented without guarantee or warranty on the part of Advanced Ceramic Products LLC.

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