

Keral 99

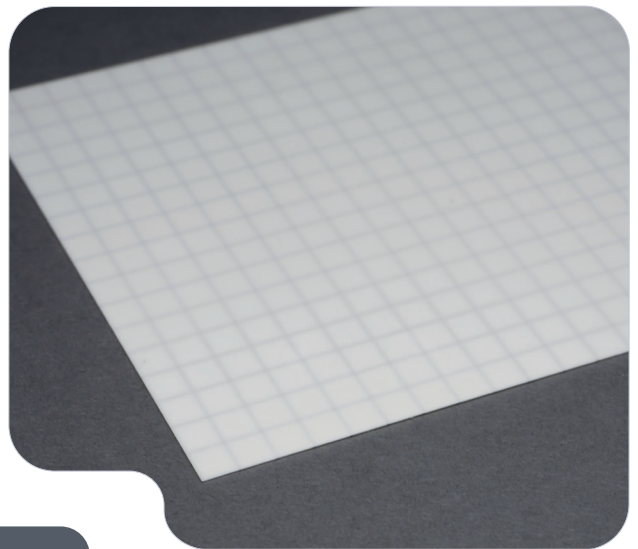
Alumina content $\geq 99.6\%$

Applications

- thickfilm substrate material
- sensor protection plate
- electrical insulator

Advantages

- fine-grained homogeneous grain structure
- very good electrical insulating ability
- good mechanical strength
- very good thermal conductivity
- cuttable with laser or waver saw
- good evenness



Typical characteristics	Unit	Value
Colour		white
Gross density	g/cm ³	3.88
Surface roughness R _a	μm	0.2
Bending strength	MPa	500
Evenness	μm	50
Dielectric strenght at 20°C	kV/mm	17
Thermal expansion coefficient 20 - 600°C	10 ⁻⁶ K ⁻¹	~ 7
Thermal conductivity	W/mK	30
Standard dimensions	mm	101.6 x101.6 and 50.8 x 50.8
Thickness	mm	0.25 up to 0.5
Structure		dense
Main components	%	$\geq 99.6\%$ Al ₂ O ₃

Keral 99 is a high alumina substrate material with $\geq 99.6\%$ purity. Due to the high degree of purity and the fine grain structure, it has a very high thermal conductivity up to 30 W / mK. The dielectric strength is the highest of KERA FOL[®]'s ceramic substrate materials.

- ! We cut the material according to your wishes!
Please send in your CAD data.

Note

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The specifications provided in this data sheet do not constitute a guarantee or warranty of specific product properties („quality guarantee“). These specifications are derived from our standardized testing procedures conducted under controlled laboratory conditions and are intended to describe the typical properties of the products as expected under standard applications. Variations may occur depending on the specific application. Accordingly, it is the responsibility of the customer to test and evaluate the products for their intended use, and adjustments to the application may be required.

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