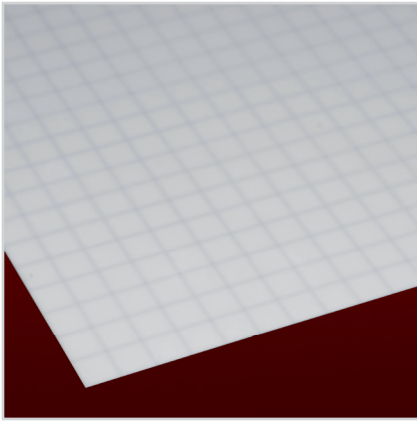


### Keral 99

Alumina content  $\geq 99.6\%$



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 KERAFOL®'s ceramic substrate materials.

 **We lasercut** the material according to your wishes!

Please send in your CAD data.

Typical characteristics	Unit	Value
Colour	-	white
Gross density	g/cm <sup>3</sup>	3.88
Surface roughness R <sub>a</sub>	μm	0.2
Bending strength	MPa	500
Evenness	μm	50
Dielectric strength at 20°C	kV/mm	17
Thermal expansion coefficient 20 - 600°C	10 <sup>-6</sup> K <sup>-1</sup>	~ 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 <sub>2</sub> O <sub>3</sub>

### 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

### Applications

- thickfilm substrate material
- sensor protection plate
- electrical insulator

**NOTE:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the Kerafol's Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.