

MATERIAL DATA SHEET

Material type: Alumina
A476T

Properties of Microstructure

Alumina Content		%	96
Density	JIS C-2141	g/cm ³	3.8
Water Absorption	JIS C-2141	%	0

Mechanical Properties

Hardness (500g)	JIS R 1610	GPa	14
Flexural strength	JIS C-2141	MPa	380

Thermal Properties

Specific Heat 20°C	JIS R 1611	J/gK	0.79
Thermal Conductivity	JIS R 1611	W/mK	26
Expansion coefficient 40-400°C	JIS R 1618	10 ⁻⁶ /K	7.0

Electrical Properties

Dielectric strength	JIS C-2141	kV/mm	15
Volume Resistance 20°C	JIS C 2141	Ω•cm	>10 ¹⁴
Volume Resistance 300°C	JIS C 2141	Ω•cm	>10 ¹⁰
Volume Resistance 500°C	JIS C 2141	Ω•cm	>10 ⁸
Dielectric constant (1 MHz)	JIS C 2141		9.6
Typical Colour			white

The values are typical material properties and may vary according to products configuration and manufacturing process.