

Main Applications			Thick Film Printing	
Item	Material		Alumina Al ₂ O ₃	Alumina Al ₂ O ₃
Material Code			A476	A476T
Alumina Content			96%	96%
Density		g/cm ³	3.70	3.78
Mechanical Characteristics	Vickers Hardness	GPa	13.7	13.9
	Flexural Strength (3-point Bending)	MPa	310	380
	Young's Modulus of Elasticity	GPa	330	340
Thermal Characteristics	Coefficient of Linear Thermal Expansion (40-400°C)	×10 ⁻⁶ /K	7.2	7.0
	Thermal Conductivity	W/m·K	26	26
Electrical Characteristics	Dielectric Strength	kV/mm	12	15
	Volume Resistivity	Ω·cm	>10 ¹⁴	>10 ¹⁴
	Dielectric Constant (1MHz)	—	9.4	9.6
	Dielectric Loss Angle (1MHz)	×10 ⁻⁴	4.0	3.0
Reflectivity (Wavelength: 450nm) (Thickness: 1mm)		%	—	—
Standard Specifications	Substrate Thickness	mm	0.1~1.0	0.32~2.7
	Surface Roughness		Ra0.3 ~0.5μm	Ra0.3 ~0.5μm