

Aluminum Nitride Property List

Recent - Techno Division
MATSUO SANGYO Co., Ltd.

Property		Grade	FAN-170	FAN-200	FAN-230
Thermal Conductivity	W/m·K(RT)		170	200	230
Thermal Emissivity	ϵ (100°C)		0.93		
Coefficient of Thermal Expansion	$10^{-6}/^{\circ}\text{C}$ (RT~400°C)		4.5		
Insulation Resistance	$\Omega \cdot \text{cm}$ (RT)		$>10^{13}$		
Dielectric Strength Voltage	kV/mm(RT)		15		
Dielectric Constant	(1MHZ)		8.8		
Dielectric Loss	10^{-4} (1MHZ)		5		
Bending Strength	MPa		350		
Density	g/cm^3		3.3		
Y (Yttrium)	wt%		3.4		