



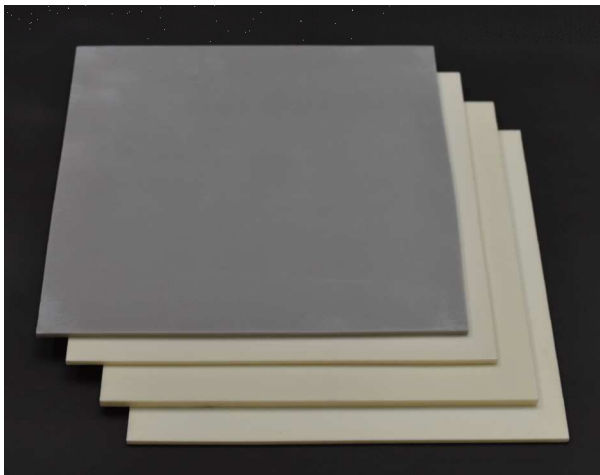
# Standard materials

Normal pressure sintering Advanced Ceramics

Standard Size is as follows.

## Standard Size

- AlN 170W/m·K Type LAL-3Y  
340X340X6t as fired Bend is about 0.5mm
- Al<sub>2</sub>O<sub>3</sub> 99.5%UP Type LA995  
333X333X5.4t as fired Bend is about 0.5mm



Model		LAL-3Y	LA995
Thermal conductivity	W/m·K(RT)	170	30
Heat radiation rate	(100°C)	0.93	
Coefficient of thermal expansion	10 <sup>-6</sup> /°C(RT~400°C)	4.5	7.3
Insulation resistance	Ω·cm(RT)	>10 <sup>13</sup>	>10 <sup>14</sup>
Insulation dielectric voltage	kV/mm(RT)	15	12
Dielectric constant	(1MHz)	8.8	10
Dielectric loss	10 <sup>-4</sup> (1MHz)	5	3
Bending strength	MPa	350	450
Density	g/cm <sup>3</sup>	3.3	3.9
Y(Yttrium)	wt%	3.4	-
O(Oxygen)	%	1.7	-



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