

BN(Boron Nitride) Materials

- It is a binder-free BN product manufactured by a hot press method
- BN is a machinable ceramics which is excellent in machinability and easy to process.
- Sale in block material, sale in machined products, whichever is available.
- It is ideal for AlN sintering setter, sagger etc.
- Maximum size Φ 320 x 270 L (mm) 220 square plate is possible.







Model number; P-A







Model number; P-B

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Model number; P-E





Model number; P-T

Characteristics BN

Model number		P-A	P-B	P-E	P-T
Copmosition	%	BN 99	BN 99	BN+ZrO ₂ +SiC	BN+TiB ₂ +AIN
other components		no	no	-	-
Density	g/cm ³	1.9	2.15	2.3	3.01
Flexural strength	Мра	35	95	150	>150
Coefficient of elasticity	GPa	180	1	1	60-70
Hardness	HL	300	450	600	-
Coefficient of thermal expansion(RT-1200°C)	x10 ⁻⁶ /K	-1~2.5	1~2	2~3	4~6
Thermal shock resistance	K	1500	=	ī	1
Coefficient of thermal conductivity at 20°C	W/m·K	50	35	15	100/40
MAX-Temperature of use	oxidinzing	900°C	900°C	900°C	900°C
	vacuum	1800°C	1600°C	1500°C	1700°C
	inert	2200°C	1800°C	1700°C	2000°C
RT Electrical eisistance	Ω·cm	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹²	-
RT Electrical resistivity	$\mu \Omega \cdot cm$	-	-	ī	300-2000
Main use		Setter for AIN sintering	Parts of semiconductor manufacturing eqipment	Molten metal parts	Deposition boat

Material manufacturing; Made in china

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