



MOMENTIVE

performance materials

PolarTherm* Boron Nitride Powder Grade PT100

Momentive Performance Materials PolarTherm boron nitride (BN) powder grade PT100 consists of single-crystal hexagonal particles with an average particle size of 13 μm . PT100 exhibits several desirable features for thermal gap-filling applications including low surface area, low tap density, and high purity.

Applications:

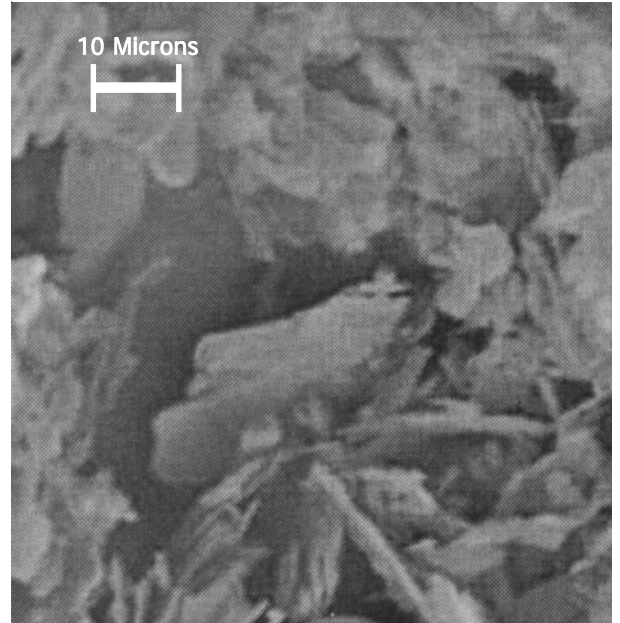
Momentive PolarTherm BN powders' unique combination of thermal, electrical, and mechanical properties make them ideal for use in a range of thermal management materials, including:

- Gap fillers and underfills
- Potting and molding compounds
- Silicone and other compliant pads
- Liquid encapsulants
- Compounded thermoplastics

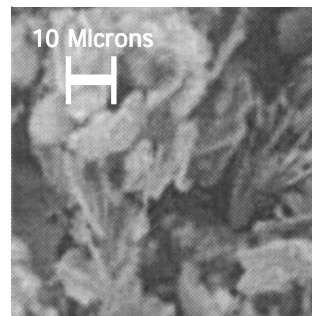
PT100 is best suited for use in thin film or sheet applications due to its single-crystal nature and small particle size.

General Characteristics of Boron Nitride

- Electrical Insulator
- Low Dielectric Constant and Loss
- High Temperature Stability
- Thermal Conductor
- Lubricious
- Inert
- Non-Wetting



PT100 - 1000x.



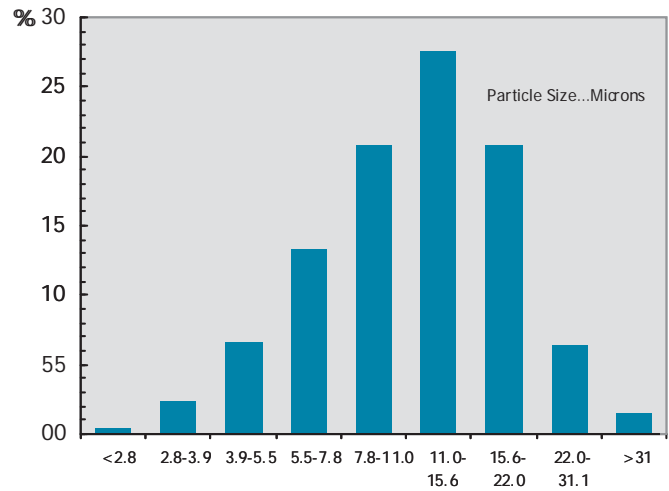
PT100 - 500x.

Momentive Performance Materials produces over 75 standard and custom grades of BN powders to meet a wide range of application requirements, and has over 40 years of expertise in the synthesis and refinement of boron nitride powders.

**PolarTherm® Boron Nitride Powder
Grade PT100**

PT100 Boron Nitride Powder

Typical Properties	Grade PT100
Crystal (type)	Hexagonal (Graphitic)
Color	White
Mean Particle Size, μm	13
Crystal Size, μm	10
Surface Area, m ² /g	5.5
Tap Density, g/cc	0.27
Oxygen, %	0.2
Sol. Borate, %	0.1
Carbon, %	0.05



Elemental	
Ca, Si.....	<500 ppm (per element)
Cu, Al, Mg, Fe, K.....	<100 ppm (per element)
Cl, S.....	<50 ppm (per element)
Na.....	<20 ppm
Other Metals.....	<10 ppm each

See Momentive Performance Materials Publication 81501 (PolarTherm) for more details on the full range of Momentive PolarTherm products.

www.momentive.com

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