

## PolarTherm®Boron Nitride Powder Grade PT110

Momentive Performance Materials PolarTherm boron nitride (BN) powder grade PT110 is a large single-crystal powder in the typical hexagonal platelet (graphite-like) shape. PT110 possesses an average particle size of  ${\sim}45~\mu m$  and a low surface area of  ${\sim}0.6~m^2/g$ .

The high-temperature processing and single-crystal nature of grade PT110 gives it a high thermal conductivity within the particle.

A special grade, PT111, which is screened to remove +200 mesh particles (> 74  $\mu$ m) is also available.

**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

PT110 is best suited for use in applications where heat dissipation from a localized source to a large surface is desired.

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.

## **General Characteristics of Boron Nitride**

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

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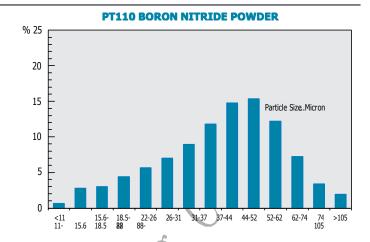
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## polarTherm® Boron nitride powder Grades pT110

Typical Properties Crystal (type)	Grade PT110 Hexagonal (Graphitic)
Color	White
Mean Particle Size, µm	45
Crystal Size, μm	~45
Surface Area, m <sup>2</sup> /g	0.6
Tap Density, g/cc	0.65
Oxygen, %	0.3
Sol. Borate, %	0.05
Carbon, %	0.03



## **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

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