



PolarTherm* Boron Nitride Filler

PT110

Momentive Performance Materials produces over 70 standard and custom grades of BN powders to meet a wide range of application requirements, and has over 50 years of expertise in the synthesis and refinement of boron nitride powders.

Potential Applications

Momentive Performance Materials' boron nitride (BN) powder grade PT110 is a highly crystalline high-purity single crystal grade with a very low surface area. This combination of features makes PT110 an outstanding filler that may improve the thermal conductivity of polymer resins, as it can be loaded to high levels and still give good flow performance. PT110 performs best when processing techniques are applied that promote favorable alignment of the platelets in the direction of desired heat flow.

PT110 as a filler offers benefits to a variety of electronics applications. Potential uses include, but are not limited to:

- Phase change thermal interface materials
- Thermal interface tapes, films, and pad
- Thermal greases, gels, and adhesives
- Potting and encapsulants
- Additive for thermally conductive plastics

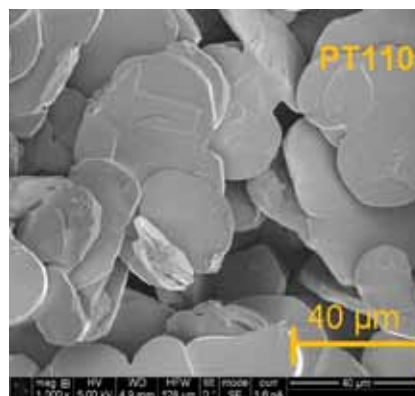
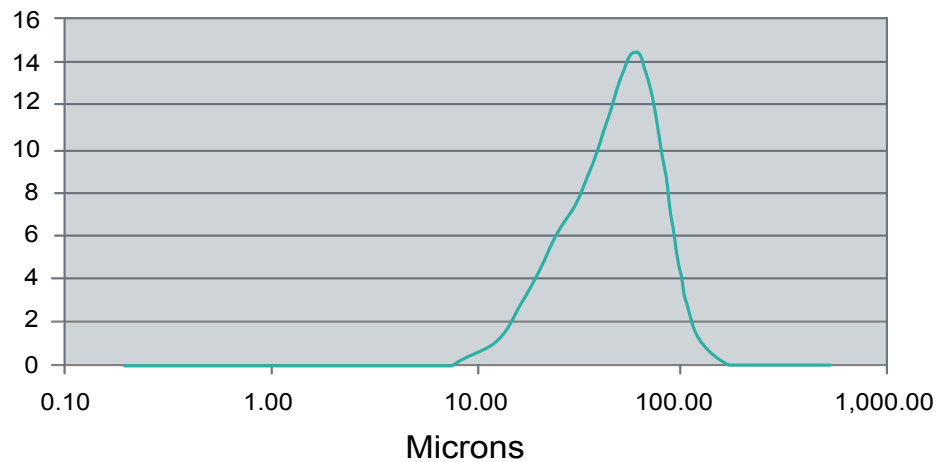
Key Features & Typical Benefits

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

Typical Physical Properties¹

Structure	Single-Crystal Platelet
Mean Particle Size (µm)	45
D10/D90 (µm)	20/80
Surface Area (m ² /g)	0.6
Tap Density (g/cm ³)	0.7
Oxygen %	0.3
Carbon %	0.03
Soluble Borates %	0.05

Typical Particle Size Distribution¹



¹ Typical data are average and actual results may vary. Typical data shall not be used as product specifications.

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LIMITATIONS: Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.=

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LOCATION	EMERGENCY SERVICE PROVIDER	EMERGENCY CONTACT NUMBER
Mainland U.S., Puerto Rico	CHEMTREC	1.800.424.9300
Alaska, Hawaii	CHEMTREC	1.800.424.9300
Canada,	CHEMTREC	1.800.424.9300
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Middle East	NCEC	+44(0) 1235239671
Asia/Pacific (except China)	NCEC	+44(0) 1235239670
China	NCEC	+86.10.5100.3039
Latin America (except Brazil)	NCEC	+44(0) 1235239670
Brazil	SOS Cotec	08000111767 or 08007071767
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At sea	Radio U.S. Coast Guard in US waters NCEC in International waters	+44(0) 1235239670

For Health related calls, contact Momentive Performance Materials at +1.518.233.2500 (English only).

DO NOT WAIT. Phone in if doubt. You will be referred to a specialist for advice.

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