



PolarTherm* Boron Nitride Powder

PTX25 and PTX60

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.

Momentive Performance Materials' PolarTherm thermal management powders are a unique spherical agglomerate of boron nitride crystals, which may result in more isotropic properties versus typical boron nitride particles. This can result in increased thermal conductivity at moderate loading levels in polymer composites, combined with the low dielectric constant typical of boron nitride.

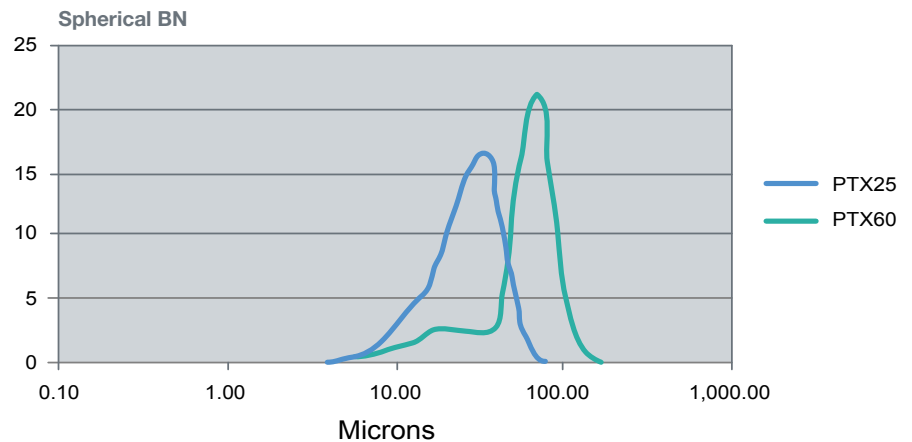
Potential Applications

PolarTherm boron nitride (BN) powder grades used as fillers may offer benefits to a variety of electronics applications. Potential uses include:

- Thermal greases, adhesives, and gels
- Phase change thermal interface materials
- Thermal interface films
- Printed circuit board pre-pregs and laminates
- Electronic molding compounds
- Underfills

Key Features & Typical Benefits

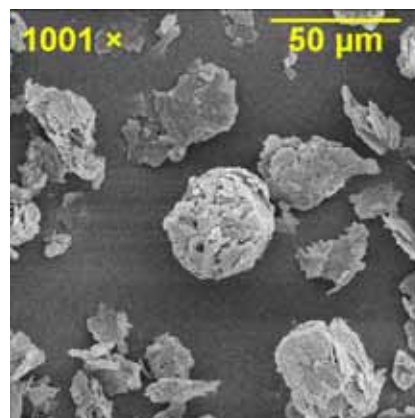
- Thermal Conductor
- Electrical Insulator
- Low Dielectric Constant/Loss
- High Temperature Stability
- Lubricious
- Inert and Chemically Stable
- Non-Wetting



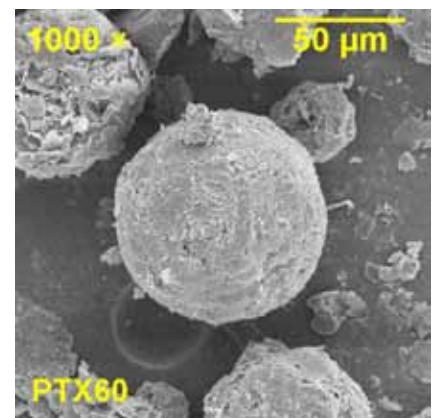
Typical Physical Properties ¹	PTX25	PTX60
Structure	Spherical Agglomerate	Spherical Agglomerate
Mean Particle Size μm	25	55-65
D10/D90	10/45	20/90
Surface Area m^2/g	7.0	6.0
Tap Density g/cm^3	0.3	0.4
Oxygen %	0.2	0.3
Carbon %	0.03	0.05
Soluble Borates %	0.1	0.1

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

PTX25



PTX60



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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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Momentive Performance Materials maintains an around-the-clock emergency service for its products.

LOCATION	EMERGENCY SERVICE PROVIDER	EMERGENCY CONTACT NUMBER
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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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For Health related calls, contact Momentive Performance Materials at +1.518.233.2500 (English only).

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