



PolarTherm* Boron Nitride Powder

Grades PT131 and PT132

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 BN powders.

Potential Applications

Momentive Performance Materials PolarTherm boron nitride (BN) powder grades PT131, and PT132 can offer an economical way to achieve the benefits of PolarTherm technology. These powders are excellent candidates to consider for substitution for aluminum nitride, alumina, and fused silica in applications where improved heat transfer properties are needed. PT131, and PT132 are fine hexagonal crystalline powders (>95% -325 mesh).

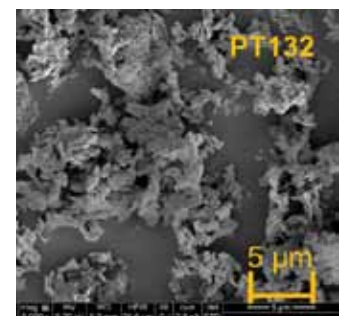
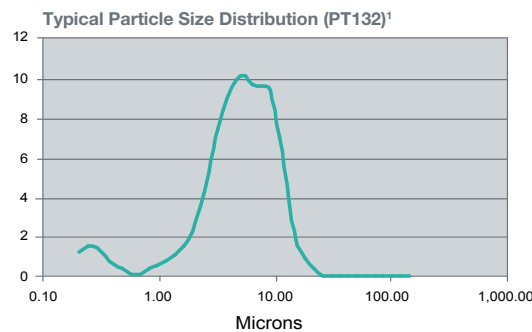
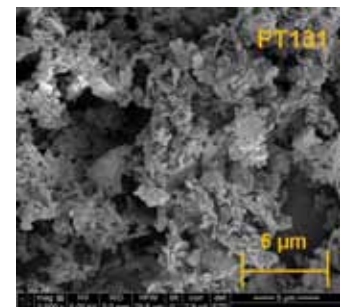
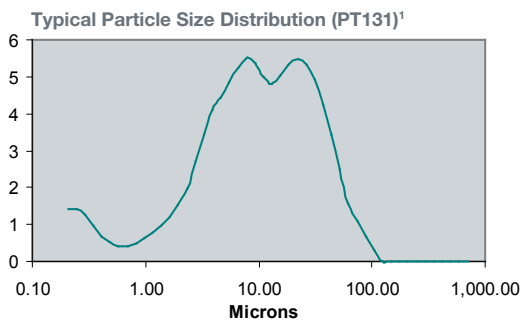
Momentive PolarTherm BN powders' combination of thermal, electrical, and mechanical properties make them ideal candidates to consider for use in a range of thermal management materials, including:

- Gap fillers and underfills
- Potting and molding compounds
- Silicone and other compliant pads
- Liquid encapsulants
- Compounded thermoplastics
- Printed circuit board pre-pregs and laminates
- Thermal interface greases, gels and adhesives

Key Features & Typical Benefits

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

Typical Physical Properties ¹	PT131	PT132
Crystal (Type)	Hexagonal (Graphitic)	Hexagonal (Graphitic)
Color	White	White
Mean Particle Size μm	10	5
Crystal Size μm	0.4	0.4
Surface Area m^2/g	14	15
Tap Density g/cm^3	0.4	0.3
Oxygen %	0.8-1.3	0.8-1.3
Soluble Borates %	0.1	0.1
Carbon %	0.1	0.1
Calcium %	<0.01	<0.01



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.=

EMERGENCY SERVICE:

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

LOCATION	EMERGENCY SERVICE PROVIDER	EMERGENCY CONTACT NUMBER
Mainland U.S., Puerto Rico	CHEMTREC	1.800.424.9300
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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

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