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 pads
- 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 Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure</td>
<td>Single-Crystal Platelet</td>
</tr>
<tr>
<td>Mean Particle Size (µm)</td>
<td>45</td>
</tr>
<tr>
<td>D10/D90 (µm)</td>
<td>20/80</td>
</tr>
<tr>
<td>Surface Area (m²/g)</td>
<td>0.6</td>
</tr>
<tr>
<td>Tap Density (g/cm³)</td>
<td>0.7</td>
</tr>
<tr>
<td>Oxygen %</td>
<td>0.3</td>
</tr>
<tr>
<td>Carbon %</td>
<td>0.03</td>
</tr>
<tr>
<td>Soluble Borates %</td>
<td>0.05</td>
</tr>
</tbody>
</table>

**Typical Particle Size Distribution**

![Typical Particle Size Distribution Graph](image)

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

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F +49 4152 938 136

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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:
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                           NCEC in International waters: +44(0) 1235239670

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