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 PT120 is a >99% -325 mesh high-purity single crystal grade with low surface area and high crystallinity. The low surface area and well-defined platelets give low viscosity in a polymer resin, allowing for high loading levels, in turn giving high thermal conductivity. The structure of PT120 also gives it a low coefficient of friction, extending the life of tooling during blending and in final application.

PT120 as a filler offers benefits in a variety of electronics applications. Potential uses include, but are not limited to:

- Thermal interface greases, gels and adhesives
- Phase-change thermal interface materials
- Printed circuit board pre-pregs & laminates
- Underfills

**Key Features & Typical Benefits**

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

<table>
<thead>
<tr>
<th>Typical Physical Properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Structure</strong></td>
<td>Single-Crystal Platelet</td>
</tr>
<tr>
<td><strong>Mean Particle Size (µm)</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>D10/D90 (µm)</strong></td>
<td>6/20</td>
</tr>
<tr>
<td><strong>Surface Area (m²/g)</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Tap Density (g/cm³)</strong></td>
<td>0.55</td>
</tr>
<tr>
<td><strong>Oxygen %</strong></td>
<td>0.3</td>
</tr>
<tr>
<td><strong>Carbon %</strong></td>
<td>0.02</td>
</tr>
<tr>
<td><strong>Soluble Borates %</strong></td>
<td>0.15</td>
</tr>
</tbody>
</table>

**Typical Particle Size Distribution**

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