Pyrolytic Graphite is an ultra-pure product near theoretical density and is extremely anisotropic. Mechanical, thermal, and electrical properties are superior to conventional graphites.

Applications
- Sputtering targets.
- Ion beam grids.
- Ion implant hardware.
- Liquid phase epitaxy hardware.
- Thermal insulators.
- Rocket nozzles.
- Heater elements.

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Pyrolytic Graphite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>2.18–2.22</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>MPa</td>
<td>120 ‘a b’ direction</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>MPa</td>
<td>80 ‘a b’ direction</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>MPa</td>
<td>100 ‘a b’ direction</td>
</tr>
<tr>
<td>Young’s Modulus</td>
<td>MPa</td>
<td>3x10⁶ ‘a b’ direction</td>
</tr>
<tr>
<td>Thermal Expansion</td>
<td>cm/cm/ ºC</td>
<td>0,5x10⁻⁶ ‘a b’ direction 20x10⁻⁶ ‘c’ direction</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>Watts/m ºC</td>
<td>300 ‘a b’ direction 3.5 ‘c’ direction</td>
</tr>
<tr>
<td>Electrical Resistance</td>
<td>Ohm*cm</td>
<td>0,5x10⁻³ ‘a b’ direction 0,5 ‘c’ direction</td>
</tr>
<tr>
<td>Crystal Structure</td>
<td>—</td>
<td>Hexagonal</td>
</tr>
<tr>
<td>Melting Point</td>
<td>ºC</td>
<td>Sublimes at 3650</td>
</tr>
</tbody>
</table>

NOTE: This data shows typical values and does not represent a specification.

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