**PHENOLIC BAKELITE PAPER SHEET HP2061**

Phenolic bakelite laminate HP 2061 is made of cellulose fiber paper impregnated with phenolic resin. Phenolic paper sheet can be used for applications up to 120°C. A combination of a temperature resistant phenolic resin and cellulose paper, HP 2061 has excellent strength, weatherability and electrical resistance properties. Typical applications include insulation of electrical and mechanical parts and structural components.

- Compliant with: DIN 7735 – HP 2061, EN60893 – PF CP201
- Very good properties under dry and humid conditions
- Good temperature properties
- Good electrical properties
- Excellent mechanical machining properties

**PRODUCT INFORMATION**

Bakelite paper sheet HP 2061 is made of a phenolic resin impregnated cellulose paper. Phenolic paper material can be used for applications up to 120°C. The combination of a temperature resistant phenolic resin and cellulose paper, HP 2061 displays excellent strength, weatherability and electrical resistance.

- Compliant with: DIN 7735 – HP 2061, EN60893 – PF CP201
- Very good properties under dry and humid conditions
- Good temperature properties
- Good electrical properties
- Excellent mechanical machining properties

**Applications**

Good inherent mechanical and electrical properties render the material suitable for applications in the electrical power industry and for manufacturing a range of insulation structural components.

**Properties**

- Good chemical resistance and durability when exposed to solvents and oils
- Very good weatherability
- Very good properties under humid conditions
- Very good electrical properties in oil
- Good heat resistance 120°C
- Very good machining properties

**Composition**

- Cellulose paper layers bound with a phenolic resin by processing under high temperature and pressure in accordance with defined industrial standards.

**Colour**

- Brown

**Dimensions**

- Sheet size for thickness range <= 2mm: 1025 x 1050 mm *
- Sheet size for thickness range >= 3 mm: 1050 x 2050 mm (can be divided into two sheets) *
- Thickness range from 0.8 – 60 mm
- We supply HP 2061 machined according to specification on request
* Sheet sizes may vary

**Packaging**

- Standard dimensions sold individually
- Usually non stock order item

Product information for which Carbex bears no responsibility is provided by the manufacturer.
Technical data

Phenolic Bakelite paper sheet complies with international standards:
EN 60893 - PF CP 201, NEMA - X, XP, DIN 7735 - HP 2061

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>1.4</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Flexural strength perpendicular at +20°C</td>
<td>135</td>
<td>N/mm²</td>
</tr>
<tr>
<td>Flexural modulus of elasticity</td>
<td>7000</td>
<td>N/mm²</td>
</tr>
<tr>
<td>Compressive strength perpendicular</td>
<td>300</td>
<td>N/mm²</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>120</td>
<td>N/mm²</td>
</tr>
<tr>
<td>Impact strength parallel to laminations</td>
<td>10</td>
<td>kJ/m²</td>
</tr>
<tr>
<td>Water absorption (thickness 3mm)</td>
<td>550</td>
<td>mg</td>
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<tr>
<td>Thermal</td>
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<td></td>
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<tr>
<td>Thermal endurance (Temperature Index)</td>
<td>120</td>
<td>T.I</td>
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<tr>
<td>Electrical</td>
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<tr>
<td>Dielectric strength perpendicular</td>
<td>5</td>
<td>kV</td>
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<tr>
<td>Dielectric strength in oil parallel</td>
<td>15</td>
<td>kV/25mm</td>
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<tr>
<td>Creep voltage strength</td>
<td>100</td>
<td>CTI</td>
</tr>
</tbody>
</table>

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