

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 give the material excellent strength, weatherability and electrical resistance properties.

Typical applications include insulation of electrical and mechanical parts and structural components.



HP 2061 phenolic bakelite paper

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.

Colours

Brown

Norms

HP 2061 phenolic bakelite paper is compliant with:

- EN 60893 - PF CP 201
- NEMA-X, XP
- DIN 7735 - HP 2061

Dimensions

- Sheet size for thickness range ≤ 2 mm: 1025 × 1050 mm*
- Sheet size for thickness range ≥ 3 mm: 1050 × 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 size may vary

Packaging

Standard dimensions sold individually
Usually non stock order item

Technical data

Properties	Value	Unit
Mechanical properties		
Density	1.4	g/cm ³
Flexural strength perpendicular at +20°C	135	N/mm ²
Flexural modulus of elasticity	7 000	N/mm ²
Compressive strength perpendicular	300	N/mm ²
Tensile strength	120	N/mm ²
Impact strength parallel to laminations	10	kJ/m ²
Water absorption (thickness 3 mm)	550	mg
Thermal properties		
Temperature endurance (Temperature index)	120	T.I
Electrical properties		
Dielectric strength perpendicular	5	kV
Dielectric strength in oil parallel	15	kV/25 mm
Creep voltage strength	100	CTI