PHP (phenolic paper)

Product description

PHP consists of several layers paper saturated with phenolic resin, pressed and cured in a hydraulic press. The material has a hard and smooth surface and does not smell. It is available in various thicknesses.

Application

Depending on thickness PHP is used as backup and entry material for mechanical drilling of printed circuit boards. Using PHP guarantees a good hole quality without drill burr and optimized hole wall roughness.

Process information

Mechanical processing of PHP (drilling, milling, sawing) can be done easily.
When using PHP as backup or entry material you can apply your standard parameters for drilling.

Material properties

Property	typical values
Material:	paper with phenolic resin, fully cured
Color:	brown
Density:	1.36 g/cm^3
Warpage:	< 3 %
Thickness:	< ± 10 %
Hardness (Shore D):	120
Flammability class:	UL94 HB

Storage & handling

Temperature:	15 – 25 °C
Relative humidity:	40 – 65 %
Storage:	Flat in original package until usage.

Availability

Thickness:	0.5 mm; 0.8 mm; 1.0 mm; 1.5 mm; 2.0 mm
Sheets:	1240x930 mm; 1240x1030 mm; 1240x1080 mm
Cut to size:	Size according customer specification. Tolerance less than +- 1 mm.

The typical values are based on data from production and from sample measurements in the lab. This data should be considered as general information. It is the responsibility of the user to ensure that the product complies with his requirements.

03.07.2017(1) / 03.07.2017