

Drill and Routing Entry Board

METODRILL® PH-Series



General Description

METODRILL® PH is recommended as an entry board for drilling and routing printed circuit boards with fine and micro holes, esp. as entry board for drilling and routing softer materials and laminates such as Polyimid and PTFE.

METODRILL® PH is a paperlaminated glued with modified and fully cured phenolic resin.

METODRILL® PH has excellent cutting properties and while drilling generates a fine, non adhesive dust which can easily be removed through the drill flutes.

Available in thicknesses from 0,2 to 12,0 mm is it a multi purpose drilling tool. Especially in thicknesses from 0,5 mm and below it is recommended as drill entry board for blind via drilling with zero check at the top copper layer.

In thicknesses of 6,0 mm and above METODRILL® PH-Series performs excellent as routing back-up with excellent flatness.

METODRILL® PH can also be used as cover sheet for routing printed circuit boards. The stiff though flexible material offers best protection against pressure marks and superior cutting properties with almost every quality routing tool.

Technical Advantages

- To be used as drill entry as well as routing cover sheet
- Excellent drill bit centring and drill guidance
- Very good suppression of burr
- Excellent machineability, fine, non adhesive drill dust
- Contains no abrasive additives
- Free of FHC, formaldehyde and hydrophobic additives

Technical Data

Thickness PH-02:	0,2 mm ± 10 %
Thickness PH-03:	0,3 mm ± 10 %
Thickness PH-04:	0,4 mm ± 10 %
Thickness PH-05:	0,5 mm ± 10 %
Thickness PH-08:	0,8 mm ± 10 %
Thickness PH-10:	1,0 mm ± 10 %
Thickness PH-15:	1,5 mm ± 10 %
Thickness PH-60:	6,0 mm ± 10 %
Thickness PH-80:	8,0 mm ± 10 %
Thickness PH-100:	10,0 mm ± 10 %

Hardness:	> 80 Shore D
Density:	approx. 1.2 g/cm ³
Structure:	phenolic resin paper laminate
Size:	930 x 1235 mm ± 2 mm 1080 x 1235 mm ± 2 mm
Pre-cut blanks:	all sizes available
Packing:	500 sheets/pallet
Colour:	brown

Economical Advantages

- METODRILL® PH cleans the cutting edges of the tools and keeps them sharp for a longer time. The drill dust can easily pass the flutes. In total there is less drill heat generated which subsequently keeps the carbide in a more stable temperature area.
- The excellent drill centring and drill guidance increases productivity especially while drilling fine and micro holes.

Quality Control

METODRILL® PH undergoes a permanent quality control. Shades of colour are due to processing and do not have any influence on the material characteristics or properties of METODRILL PH.

Waste Disposal

METODRILL® PH contains phenolic resin, local disposal rules must be applied.

Storage

METODRILL® PH is hydrophilic at the cutting edges and therefore should remain in the original moisture proof packing until use. Rapid changes of temperature and moisture must be avoided. Warpage due to moisture is hardly reversible.