

# Drill and Routing Entry Sheet

## METOTOP<sup>®</sup> MPM-30 and MPM-45



### General Description

METOTOP<sup>®</sup> MPM is recommended as an entry sheet for drilling and routing printed circuit boards with fine and micro holes, esp. to be used with softer materials and laminates such as Polyimid and PTFE.

METOTOP<sup>®</sup> MPM is a flexible laminate of special impregnated melamine paper on a fully cured phenolic based core.

The symmetric construction allows best drill guide, excellent reduction of burr and easy handling all in one.

METOTOP<sup>®</sup> MPM has excellent cutting properties and while drilling generates a fine, non adhesive dust which can easily be removed through the drill flutes.

### Technical Advantages

- To be used as drill entry as well as routing cover sheet
- Non conductive, thus usage as entry board for precise blind via drilling
- Excellent drill bit centring and drill guidance
- Very good suppression of burr
- Excellent machineability, fine, non adhesive drill dust
- MPM 30 also to be used as micro hole drilling entry board
- Contains no abrasive additives
- Free of FHC, formaldehyde and hydrophobic additives
- Symmetric 3-layer compound

### Technical Data

Thickness MPM-30:	0.30 mm ± 10 %
Thickness MPM-45:	0.45 mm ± 10 %
Hardness:	> 80 Shore D
Density:	approx. 1.2 g/cm <sup>3</sup>
Structure:	3-layer compound
Size:	930 x 1235 mm ± 2 mm 1080 x 1235 mm ± 2 mm
Precut blanks:	all sizes available
Packing:	500 sheets/pallet
Colour:	tight grey surface, brown core

### Economical Advantages

- Easy handling due to symmetric structure, no preferred direction to be considered while stacking
- Less set-up time due to possibility of combined use as drill entry and routing cover sheet
- METOTOP<sup>®</sup> MPM 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

METOTOP<sup>®</sup> MPM undergoes a permanent quality control acc. DIN EN ISO 9001. Shades of colour are due to processing and do not have any influence on the material characteristics or properties of METOTOP<sup>®</sup> MPM.

### Waste Disposal

METOTOP<sup>®</sup> MPM can be disposed by burning, providing heat energy, in compliance with local regulations. A burning temperature > 800 °C and sufficient oxygen are recommended.

### Storage

METOTOP<sup>®</sup> MPM 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.