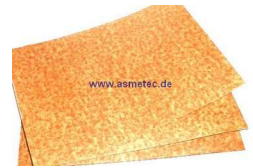


Drill and Routing Entry Sheet

METODRILL[®], FD-40 and FD-80



General Description

METODRILL FD is recommended as an entry sheet for drilling and routing printed circuit boards with fine and micro holes.

METODRILL FD is made of a melamine-epoxy-paper laminate. It is manufactured on advanced equipment according to tight technical and ecological specifications.

The hard but thin surface ensures - in conjunction with the soft core - a quick and accurate drill centering, especially for fine and micro drills. METODRILL FD has excellent cutting properties and generates while drilling a fine, non adhesive dust which can easily be removed through the drill flutes.

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

As METODRILL FD contains no low temperature resins (e.g. phenolic resin) there is absolutely no risk of resin contamination of cutting edges, flutes or drill holes.

Technical Properties

- To be used as drill entry as well as routing cover sheet
- Excellent drill bit centering and drill guidance
- Very good suppression of burr
- Excellent machineability, fine, non adhesive drill dust
- No abrasive additives
- Free of phenolic resin, FHC, formaldehyde and hydrophobic additives
- Symmetric 3-layer compound

Technical Data

Thickness FD-40, medium brown, speckled	0.4 mm ± 10 %
Thickness FD-80, medium brown, speckled	0.8 mm ± 10 %
Structure:	3-layer compound
Sizes:	1.070 * 1.230 mm ± 2 mm
	925 * 1.230 mm ± 2 mm
Precut blancs	all sizes available
Packing:	500 sheets/pallet

Economical Properties

- 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
- METODRILL FD 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's less drill heat generated which subsequently keeps the carbide in a more stable temperature area.
- The excellent drill centering and drill guidance increases productivity especially while drilling fine and micro holes.

Quality Control

METODRILL FD undergoes a permanent quality control ac DIN EN ISO 9001. Shades of colour are due to processing and do not have any influence on the material characteristics or properties of METODRILL FD.

Waste Disposal

METODRILL FD can be disposed by burning, providing heat energy, in compliance with local regulations. A burning temperature > 800 °C and sufficient oxygen are recommended.

Storage

METODRILL FD 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.