Drill and Routing Entry Sheet
CIMDRILL FA-20, FA-40 and FA-80

General Description
CIMDRILL® FA is recommended as an entry sheet for drilling printed circuit boards with fine and micro holes and as a cover sheet for routing printed circuit boards.

CIMDRILL FA is made of natural compounds, is free of phenolic resin and is manufactured on advanced equipment according to tight technical and ecological specifications.

CIMDRILL FA is coated on both sides with a hard but very thin cured urea/melamine resin paper on a cellulose core. The symmetric construction allows best drill guide, excellent reduction of burr and easy handling all in one.

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

CIMDRILL FA 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 CIMDRILL FA 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
- Cuttable on guillotine shears and saws

Technical Data
- Thickness FA-20, medium brown, speckled: 0.2 mm ± 10 %
- Thickness FA-40, medium brown, speckled: 0.4 mm ± 10 %
- Thickness FA-80, medium brown, speckled: 0.8 mm ± 10 %
- Structure: 3-layer compound
- Sizes: 1.070 × 1.225 mm ± 2 mm
- 925 × 1.225 mm ± 2 mm
- 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
- CIMDRILL FA 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
CIMDRILL FA 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 CIMDRILL FA.

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

Storage
CIMDRILL FA 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.

Sizes
Our new high performance computer controlled sawing centre enables us to supply our customers with panels cut to size within no time. Panels can be supplied with registration holes.
General safety information
- Only use the product for applications described in the product data sheet
- The product is intended for industrial use only
- The product is not suitable for food industry
- The product must not be eaten
- In case of fire noxious fumes or smoke can be generated

Danger
Dust generation, do not inhale dust, comply with general dust limit value TRGS 553
Do not inhale fumes or smoke created during processing or by fire

Protection methods
Dust extraction or dust protection mask

Extinguishing agent
Foam, powder, CO2

Environment
Comply with limit value for respirable dust
Dispose of waste safely