

# CIMDRILL PH-Series

Version: 22/07/2024

## Drill- and Routing Entry

### Product Description

CIMDRILL® PH is used as an entry material for layouts with a high proportion of micro holes or for combined drill / routing applications.

CIMDRILL PH is a paper laminate with modified phenol resin as a binding system.

The hard and thin surface achieved – supported by the relatively soft carrier – the fast and accurate centring of drill bits especially for micro holes. CIMDRILL PH is easy machinable and decomposes while drilling in dry and fine drill flour, which can easily be removed through the chip flutes.

CIMDRILL PH is used as entry material especially for problematic material like PTFE and Aramide.

Because of its electrical insulation characteristics is CIMDRILL PH used for the drilling of blind vias; the zero point is set on top of the first copper layer, so the thickness tolerance of the material is eliminated.

CIMDRILL PH could also be used as entry material for routing applications. The hard but still flexible material is offering a protection against marks and scratches and could be used with all common routers existing in the market.

### Technical Advantages

- > Multiple use as entry and backing material
- > Excellent centring and guidance properties
- > Excellent burr elimination
- > Easy and fine chipping
- > Do not include abrasive additives

### Economical Advantage

- > Easy handling, symmetric built-up, no preferred directions
- > Low setup times because of the multiple use as drill and routing material
- > Increased productivity because of excellent centring and guidance characteristics (faster feed rates possible)

Technical Data	
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 %

Composition	Paper Laminate
Dimensions	1.075 * 1.235 mm ± 3 mm 930 * 1.235 mm ± 3 mm
Packaging Unit	500 Sheets/EW-Pallet
Colour	Brown

### Quality

CIMDRILL PH is manufactured with continuous inspection. Differences in colour are based on the manufacturing process and do not harm the technical characteristics of the material itself.

### Disposal

CIMDRILL PH has to be wasted under the regional environmental laws for phenol containing materials.

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### Storage

CIMDRILL PH should remain in its original packing until use. It should be stored under the same temperature and humidity conditions that surround the working area. Rapid change of these conditions will cause moisture fall out resulting in subsequent warp, which is not easy reversible.

### Sizes

Our new high performance computer controlled sawing centre enables us to supply our customers with panels or large sheets at short notice. 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, CO<sup>2</sup>

### Environment

Comply with limit value for respirable dust  
Dispose of waste safely