

TECHNICAL DATA SHEET

Product: PCB-4 Version: 2.3 Issued: 01/11/2024

CARDEL™ SEPARATOR PLATES – PCB-4

Cardel™ PCB-4 plates are high quality lamination plates used in PCB manufacturing as separator plates.

The plates are available in a range of surface finishes and can be supplied as standard or with additional surface coatings that enable our customers to gain technical performance and lifetime benefits in their production operations either from lifetime extension or through reduction of contaminants on the plates after lamination.

Cardel offers a re-surfacing and / or re-coating service for all plates we produce in order to extend plates lifetime, reduce the cost of replacement and also reduce the environmental impact caused by replacement.

All plates are supplied with deburred edges and rounded corners to minimise any risk of operator handling injuries.

Properties

Material hardened and tempered stainless steel (1.4021 / AISI 420)

Hardness 48 – 52 HRC

Heat conductivity 30 W/m·K

Thermal expansion (CTE) 11 x10⁻⁶ 1/K (20°C-200°C)

Thickness 1 mm, 1.2mm, 1.6 mm (+/- 0.1mm). Other thicknesses available on request.

Size tolerance +/- 0.5 mm

Squareness +/- 1 mm per m

Parallelism ≤ 0.05 mm Flatness 3 mm/m

Surface finish options: - #4 (Ra ≤0.25µm; Rz ≤2.4µm)

- #5 (Ra ≤0.14μm; Rz ≤1.5μm)- #6 (Ra ≤0.12μm; Rz ≤1.2μm)

- custom finishes available on request

Optional extras: - holes / slots / chamfered corners

- Diaplus – extra hard (>900HV) anti-scratch surface coating (gloss only)

<u>Packaging</u>

Plate protection residue free self-adhesive low tack film on both sides

Shipping high quality durable export boxes with screwed lid and front

Safety / Regulatory approvals

There are no hazards associated with the normal use of Cardel™ lamination plates, therefore our products **do not require safety data sheets**. For the most up-to-date information and technical data sheets please visit www.cardel.co.uk

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