



LAMINATION PLATES AND PRESS PADS

TECHNICAL INFORMATION

Cardel Ltd.

Marquis Centre
Baldock Hertfordshire
SG7 6XL
United Kingdom

Tel: +44 (0) 1462 491702
Fax: +44 (0) 1462 491703
sales@cardel.co.uk
www.cardel.co.uk

Lamination plates

- Unique range of secure and non-secure high quality lamination plates.
- Batch-to-batch consistency.
- Precision gloss and matt finishes (rigorously controlled Ra and reflectivity).
- Borders and location corners available.
- Crated each side with light tack PVC coating.
- Supplied in high quality durable export containers with screwed front and top for ease of plate removal.

Ultragloss 1 plates



Ultragloss 2 plates



Ultrasilk plates



Ultramatt plates



Lamination pads / press pads

- Specialty lamination pads for all types of lamination press are available.
- Pads offer controlled heat and pressure transfer characteristics.

Cardlam 200 pads



Cardlam 220 pads



Cardlam 230 pads



Max temp: 180 / 200°C
Operations: 3,000-4,000

Max temp: 220°C
Operations: 4,000-6,000

Max temp: 230°C+
Operations: 8,000-10,000



CARDEL 'HIGH GLOSS' LAMINATION PLATES

ULTRAGLOSS 1

TECHNICAL DATA



Material:	Slow rolled, middle billet ferritic stainless steel
Size Tolerance:	+/- 0.5mm
Thickness:	0.5mm, 0.8mm or 1.0mm
Squareness:	1mm per 1m length
Number of Cycles:	Approximately 4000-6000 dependant on careful handling and use
Finish:	All edges deburred and corners removed Homogenous, non-directional finish Micro grain finish in 'X' or 'Y' direction
Specifications:	Available with 'Ultra Grip' borders and 'Centre Grip' strip
Coating:	0.002" PVC with a light water based 'tack' for easy removal
Suitable for:	Bank Credit ✓ Magnetic Stripe ✓ Commercial / Loyalty ✓ Smart card ✓



CARDEL 'MEDIUM GLOSS' LAMINATION PLATES

ULTRAGLOSS 2

TECHNICAL DATA



Material:	Slow rolled, middle billet feritic stainless steel
Size Tolerance:	+/- 0.5mm
Thickness:	0.8mm
Squareness:	1mm per 1m length
Number of Cycles:	Approximately 4000-6000 dependant on careful handling and use
Finish:	All edges deburred and corners removed Homogenous, non-directional finish Micro grain finish in 'X' or 'Y' direction
Specifications:	Available with 'Ultra Grip' borders and 'Centre Grip' strip
Coating:	0.002" PVC with a light water based 'tack' for easy removal
Suitable for:	Bank Credit ✓ Magnetic Stripe ✓ Commercial / Loyalty ✓ Smart card ✓



CARDEL 'SILK' LAMINATION PLATES

ULTRASILK & ULTRASILK DS

TECHNICAL DATA



Material:	Slow rolled, middle billet feritic stainless steel
Size Tolerance:	+/- 0.5mm
Thickness:	0.8mm or 1.0mm
Squareness:	1mm per 1m length
Number of Cycles:	Approximately 4000-6000 dependant on careful handling and use
Finish:	All edges deburred and corners removed Homogenous, non-directional finish
Coating:	Foam Interleave
Suitable for:	Bank Credit ✓ Magnetic Stripe ✓ Commercial / Loyalty ✓ Smart card ✓ Dye sublimation printing ✓



CARDEL 'MATT' LAMINATION PLATES

ULTRAMATT

TECHNICAL DATA



Material:	Slow rolled, middle billet ferritic stainless steel
Size Tolerance:	+/- 0.5mm
Thickness:	0.8mm or 1.0mm
Squareness:	1mm per 1m length
Number of Cycles:	Approximately 4000-8000 dependant on careful handling and use
Finish:	All edges deburred and corners removed Homogenous, non-directional finish
Coating:	Foam Interleave
Suitable for:	Commercial / Loyalty ✓ Prelamination of contactless cards ✓



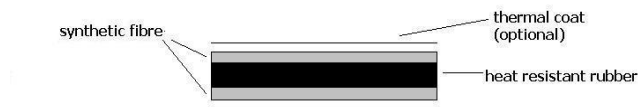
CARDEL 'CARDLAM 180' & 'CARDLAM 200'

LAMINATION PADS

TECHNICAL DATA



Structure: Synthetic fibre outer and high-density heat resistant rubber inner



Types:	4mm – available for all types of medium / high volume single and twin stack laminators (equivalent to 11 sheets Kraft paper)
Size tolerance:	+/- 1mm
Squareness:	+/- 2mm per metre
Max Temp peak:	180°C for Cardlam 180 200°C for Cardlam 200
Max Temp continuous:	150°C for Cardlam 180 180°C for Cardlam 200
Max Pressure:	500 psi (35kg / cm ²)
Average recommended cycle:	20 - 25 mins
Typical Number of cycles:	2000 - 4000



CARDEL 'CARDLAM 220' LAMINATION PAD

TECHNICAL DATA



Description:	High efficiency, low profile conductive polymer, card Lamination pad, designed for single stack and twin stack lamination. Compatible with "tilt trays" assembly systems.
Structure:	Conductive polymer around a structural fabric inner
Weight:	approx 3000g/m ²
Thickness:	2mm - suitable for all types of medium / high volume Single and Twin stack laminators.
Size tolerance:	+/- 1mm
Squareness:	+/- 2mm per metre
Max Temperature peak:	220°C
Max Temperature continuous:	210°C
Max Pressure:	500 psi (35kg / cm ²)
Average recommended cycle:	15 - 22 mins
Typical Number of cycles:	4000 - 6000



CARDEL 'CARDLAM 230' (COPSIL) LAMINATION PAD

TECHNICAL DATA



Copsil has been specifically formulated for use with plastic card laminators and is available to suit any laminating area, offering substantial benefits to the card manufacturers including:

Increased Productivity:	Up to 30% reduction in the laminating cycle
Eliminates Static:	Improving handling and is preferred by laminator operators
High Durability:	Up to 10,000 operations
Versatility:	Compatible with all laminators but generally recommended for single stack laminators due to higher speed
Features:	Provides quality benefits in laminating; helps eliminate laking and frosting
Performance Specification:	
Thermal Conductivity:	0.139 w/mk
Thermal Resistance:	0.141 tog
Maximum Continual Temperature:	230°C+
Nominal Maximum Pressure:	100 bar (1470 psi)
Size:	+/- 3mm
Squareness:	5mm per metre
Thickness:	Nominally 1.5mm
Shrinkage:	3/4% on warp