



The Plastic Films Specialist

EverCore™ Uncoated PVC Overlay Card Substrates Technical Data Sheet

Description and Applications

Evercore™ Uncoated PVC Overlay film is designed for lamination with PVC core sheets in the production of blank or non-printed card bodies. It features excellent optical transparency and high surface smoothness. Its high surface energy promotes clean surface fusion and stable dimensional performance during lamination. EverCore™ Uncoated PVC Overlay film is intended for applications where no printing or ink layer exists between the overlay and the PVC base core, enabling direct PVC-to-PVC bonding for maximum interlayer adhesion and durability. The film ensures low shrinkage, stable dimensional performance, and a clean, defect-free surface finish, hence making it ideal for manufacturing of blank white cards or pre-lamination white card sheets. The resulting card body (or card sheet) provides a smooth, printable surface suitable for downstream personalisation using direct to card dye sublimation, thermal transfer and retransfer printers.

Printing Systems

Dye Sublimation
Thermal transfer printers
Retransfer printers

Typical Applications

Pre-lamination white card sheets
ID cards, RFID/IC card bases
PVC card bodies needing adhesion, clarity & high production yield

Typical Property Values

Property	Test Method		Units	Value
Physical				
Density		DIN EN ISO 1183-2	g/cm3	1.20 +/- 0.02
Thickness			mm	+/- 10%
Width		Micrometer	mm	+/- 1.0mm
Length			Mm	+/- 1.0mm
Squareness		1m x 1m	mm/M	$\leq 1.2 \text{mm}$
Dyne Level	Front	ISO 8296	Dyne / cm	≥ 36
	Back		Dyne / cm	≥ 35
Roughness	R _a	DIN 4768	um	0.5 – 1.8
Mechanical				
Tensile Strength	MD	DIN EN ISO 527	MPa	≥ 12
	TD			≥ 12
Thermal				
Shrinkage at 140°C / 10min	MD	DIN 53377	%	$\geq - 28$
	TD			≤ 13
Vicat Heat Resistance (B50)		DIN EN ISO 306	°C	75 +/- 2°C
Visual Inspection				
Surface / Foreign Particles (Gels, Inclusions, etc)	$\varnothing 0.3\text{mm} - \varnothing 0.5\text{mm}$	Visual	Nos / m ²	≤ 20
	$\geq \varnothing 0.5\text{mm}$			None
	Others			Not Allowed

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These are typical properties and are not intended for specifications purposes. If minimum certifiable properties are required, please contact your local sales representative. Reported values are based on 0.08mm thickness film unless otherwise noted.

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