

FEATURES

- Bonds to Polyvinylchloride (PVC) and/or CPX-9000 layers
- Custom color-matched, white opaque, and clear films available
- Excellent printability
- Available in master rolls, slit rolls, and cut-to-size sheets

BENEFITS

- Provides increased durability and a greater flex life than Polyvinylchloride (PVC)
- Is an uncoated/barefoot material, which provides a stronger and more consistent bond than materials that require print receptive coatings and/or bonding agents
- Does not require map and/or matching sheet processes, minimizing waste/yield loss

CPX-9000 is used in:

Identification Cards

- Student ID
- Parking pass
- Employee ID
- Healthcare ID

Government Cards

- State driver's license
- Commercial driver's license
- National identity card
- Voter registration card

Financial Cards

- Credit card
- ATM card
- Loyalty card



Wiman Corporation's CPX-9000 film offers superior benefits over traditional Polyvinylchloride (PVC) films.

CPX-9000 is a high performance co-polyester film that is specifically designed to add strength and endurance to composite card structures. In fact, our CPX-9000 film has demonstrated superior performance in the composite card industry, including applications such as identification, government, and financial cards.

In addition to being designed for increased durability and a greater flex life, CPX-9000 has been created with card aesthetics and cost in mind. Available in opaque and clear films, CPX-9000 can be custom color-matched to meet your precise color requirements. This material also provides excellent printability. Furthermore, CPX-9000 bonds to Polyvinylchloride (PVC) and/or CPX-9000 layers, and requires a less specialized and less costly manufacturing processes. In fact, its printing parameters are the same or similar to that of PVC layers.

CPX-9000 not only outperforms traditional PVC films, it offers superior advantages to DuPont's Teijin Melinex® Core 1 and Core 2 materials, as shown below.

CPX-9000 Core Material vs. DuPont's Teijin Melinex® Core 1 and Core 2 Materials

Feature	CPX-9000	Opet Core 1 and Core 2
Map and matching sheets	Not required	Required to control torque
Waste/yield loss (customer reported)	5 - 6% standard	>15% due to matching sheets
Processing parameters	Same/similar to PVC	Higher heat and dwell required
Coating for printing and lamination to PVC	Not required, provides excellent bond to PVC layer	Required for heat seal coating, bond, and printing - inconsistent
Product yield	Offers an additional 17 - 21%, 6 mil: 3610 sq."/#, 12 mil: 1860 sq."/#	6 mil: 3080 sq."/# 12 mil: 1540 sq."/#
Flex life and stiffness	INCITS 440 approved for D-3 and D-5 card applications	INCITS 440 approved for all D-5 card applications
Laser markable additive	Can be added	Cannot be added
Lead time	4 - 6 weeks	10 - 16 weeks

Melinex® is a registered trademark of DuPont Teijin Films.



Wiman Corporation is a wholly owned subsidiary of RTP Company.

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CPX-9000 CORE MATERIAL FOR COMPOSITE CARDS

MATERIAL TESTING

The data presented in this document was generated through an independent lab. Evaluated card structures included 80/20, 60/40, printed, and blank composite cards. The testing determined that when the CPX-9000 layers are closest to the outer surface, or actually used in the outer overlay, a greater number of flexes are achieved (>100,000 in the "A" axis and 84,000 to 100,000 flexes in the "B" axis).

Approval categories:

- D-3 approved as financial transaction card applications
- D-4 and D-5 approved for secure IDs, driver license card applications

CPX-9000: CORE MATERIAL & COATED OVERLAY

Composite cards have distinct advantages over all PVC cards due to their greater flex life and better durability. With the increase in requirement for longer card lifespan (five year minimum), it makes sense to consider manufacturing composite cards. Manufacturers sometimes turn to DuPont Melinex® for layers in composite card structure because it provides greater card stiffness and flex life. However, CPX-9000 can provide similar performance when used as a core layer and/or as a coated overlay, offering strength, durability, and flex for a wide variety of identification, government, and financial card applications.

Benefits of using CPX-9000 as a "core" layer

- a. Added bending/stiffness - approved through ISO/IEC
- b. Card flex - approved for D-3 (financial cards) under INCITS 440 and 322
- c. Peel strength to PVC layer - approved under ISO/IEC 7810 with bond at 5.3 - 6.7#s
- d. Prints like PVC, no coating layer for ink receptivity or bonding agent

Benefits of using CPX-9000 as a coated overlay

- a. Added card flex - approved for D-5, both "A" and "B" axis
- b. Peel strength - approved under ISO/IEC 10373-1
- c. Heat resistance: elevated temperature at 50 °C for four hours - passed ISO deflection requirement
- d. Card flex life - INCITS 440, approved for D-5 and D-4/driver license cards and financial cards.
- e. Lineal dimension change: ANSI/INCITS 440, pre-heated oven at 150 °C for 30 minutes. "A" axis 5.5% = D-3 certification; "B" axis 0.1% = D-5 certification; approved for financial cards

SECURE & NON-SECURE PAYMENT CARD OFFERINGS:

Wiman Corporation offers the following options for secure and non-secure payment cards:

- Composite film layers for extended life cards
- Coated overlay films
- Digital substrates and overlays
- Custom colors in short runs
- Laser markable film for gray scale or tactile print
- Clear colored PC films, with laser markable additives available upon request

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