



DuPont Teijin Films™

# Melinex® Polyester Films for Cards

Strong, Durable, Temperature Resistant, and Environmentally Friendly

## Melinex® Standard Film Range

for single layer and basic laminated card structures

Film Type	Thickness		Properties and Applications
	mil	μ	
Melinex® 329, 339	1 to 10	25-250	Opaque, plain or treated for adhesion for single-ply cards.
Melinex® 342	3 to 7.5	75-188	Clear, 2-side heat sealable, print receptive for laminated cards. Ideal for use in all-PET or composite cards.
Melinex® 357	3 to 7.5	75-188	Opaque, 2-side heat sealable, print receptive for laminated cards. Ideal for use in all-PET or composite cards.

## Melinex® CORE Film Range - The Ultimate in Durability

for the longest life in government, health, and campus ID



Film Type	Thickness		Properties and Applications
	mil	μ	
Melinex® CORE1	6, 12	152, 307	Opaque, 1-side heat sealable, surface modified to prevent air entrapment. Accepts UV curable and solvent based offset litho and screen printing. Ideal for use as all PET core body.
Melinex® CORE2	6, 12	152, 307	Opaque, 2-side heat sealable, surface modified to prevent air entrapment. Adhesion to UV inks. Ideal for use with Melinex® overlay films to produce tamper evident 100% PET card structure.

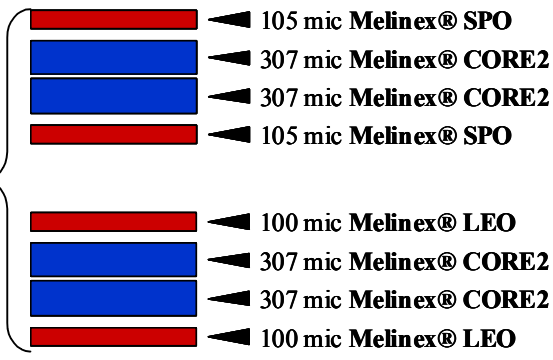
## Melinex® Protect Film Range

for tamper evident durable overlays and 100% polyester cards

Film Type	Thickness		Properties and Applications
	mil	μ	
Melinex® CPO (Clear Protective Overlay)	4	100	Transparent 1-side heat sealable, suitable as protective overlay on blank or part ink coverage.
Melinex® SPO (Secure Printable Overlay)	4	105	Transparent 1-side heat sealable, suitable for Dye Diffusion Thermal Transfer color photo personalization. Tamper evident structure when used with Melinex® CORE2.
Melinex® LEO (Laser Engraving Overlay)	4	105	Transparent 1-side heat sealable, suitable for Laser Engraving. Tamper evident structure when used with Melinex® CORE2.

# EXAMPLE CARD STRUCTURES

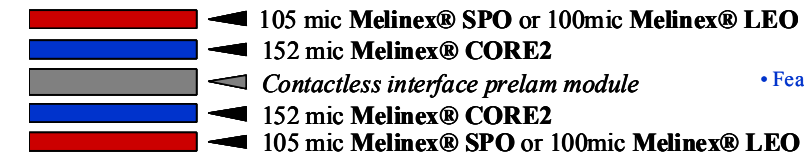
NON-CONTACT & CONTACT  
Secure Identity – Tamper Evident



- Integral HeatSeal Layers
- Suitable for Dye Diffusion Thermal Transfer
- Excellent Bond Strength (>10 n/cm) up to 60% guilloche security print
- Visual Tamper Evidence at point of failure
- No offline adhesives needed

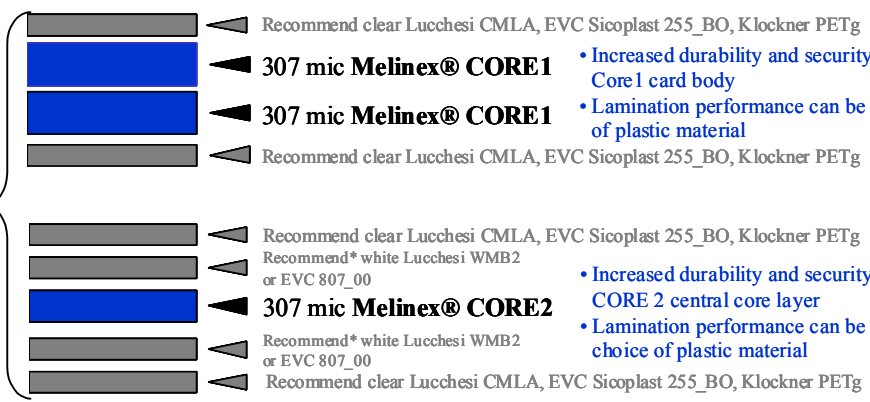
- Integral HeatSeal Layers
- Suitable for Laser Engraving
- Excellent Bond Strength (>10 n/cm) up to 60% guilloche security print
- Visual Tamper Evidence at point of failure
- No offline adhesives needed

CONTACTLESS  
Secure Identity – Tamper Evident



• Features as above

COMPOSITE CARDS  
Cost vs. Durability vs. Security



- Increased durability and security from Melinex® Core1 card body
- Lamination performance can be affected by choice of plastic material

- Increased durability and security from Melinex® CORE 2 central core layer
- Lamination performance can be affected by choice of plastic material

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont Teijin Films makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see “DuPont Medical Caution Statement”, H-51459.

Mylar®, Melinex®, Kaladex®, Teijin®Tetoron®, Purex®, and Cronar® are registered trademarks of DuPont Teijin Films.

Only DuPont Teijin Films makes Mylar® brand, Melinex® brand, Kaladex® brand, Teijin®Tetoron® brand, Purex® brand, and Cronar® brand films.



## U.S. CONTACTS

Market Manager – Marc Bandman  
Technical Support – Keith Kulesza  
Samples – Bobby Reekes

Tel: (800)635-4639  
[www.dupontteijinfilms.com](http://www.dupontteijinfilms.com)