



Melinex®

polyester film

Melinex® CPO

Product Description

Melinex® Clear Protective Overlay is part of the Melinex® Protect range of PETF overlay films for durable cards.

It has been designed as a clear, protective overlay for use in the manufacture of an all polyester, or composite card.

Melinex® CPO has a heat seal surface on one side which is recommended to be laminated to printed Melinex® CORE 2 polyester film, giving a tamper evident structure. It may also be laminated to other compatible films of PETG and PVC. Melinex® CPO is designed for lamination to cards which are blank or partially printed – it will bond securely to recommended surfaces with up to 60% guilloche printing. It is not suitable for 100% full-bleed printed cards.

The overlay thickness is 100 micron.

Food contact advice

Melinex® CPO has not been assessed against European Food Contact Legislation.

Disposal

Disposal of Melinex® does not present special disposal problems. In most circumstances, once Melinex® has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Melinex® can also be burned in an incinerator with normal refuse or can be buried as a relatively inert material in a landfill. The disposal method should comply with appropriate local and country regulations.

TYPICAL VALUES OF FILM

Property	Test Method	Unit	Value	
General				
Thickness	DTF Method	micron	100	
Area Yield	DTF Method	m ² /kg	7.15	
Thermal				
Shrinkage (190°C for 5 mins)	Based on ASTM D1204-78	%	MD	TD
			2.5	2.5
Mechanical				
Tensile strength at break	Based on ASTM D882-83	Kgf/mm ²	MD	TD
			11	13
Yield Stress	Based on ASTM D882-83	Kgf/mm ²	7	7
Optical				
Haze	Based on ASTM D1003-77	%	<2	
Overlay Delamination				
Peel Strengths	ISO 10373	N/cm	>6.0	
Card Droop Test (when incorporated with Core 2)				
	DTF Method			
	4hrs @ 65°C	mm	0.8	
	4hrs @ 85°C	mm	1.2	
	4hrs @ 100°C	mm	1.2	

1µm = 1 micron = 0.001mm approx 4 gauge, *MD = Machine Direction, **TD = Transverse Direction

* the overlay will bond extremely securely to recommended surfaces with up to 60% guilloche ink coverage

Date of Last Revision: 08 Feb 2012

DuPont Teijin Films Contacts	
Continental Europe DuPont Teijin Films (Luxembourg) SA BP-1681 L-1016 Luxembourg Telephone +352 2616 4004 Fax +352 2616 5000 http://www.dupontteijinfilms.com	United Kingdom DuPont Teijin Films (UK) Ltd PO Box 2002 Middlesbrough England TS90 8JF Telephone +44 (0) 1642 572000 Fax +44 (0) 1642 572075 e-mail: europe.films@gbr.dupont.com e-mail: packaging.films@gbr.dupont.com

The information provided in this Product Information Note corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont Teijin Films 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 rights.

'Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Teijin Films Medical Caution Statement", H-50102-3-DTF and H-50103-3-DTF.

Copyright © 2012 DuPont Teijin Films. Melinex® and Mylar® are registered trademarks of DuPont Teijin Films U.S. Limited Partnership. Teijin® and Tetoron® are registered trademarks of Teijin Limited and are licensed to DuPont Teijin Films US, Limited Partnership. Teonex® is registered trademark of Teijin DuPont Films Japan Limited and licensed to DuPont Teijin Films U.S. Limited Partnership.

©2012 DuPont Teijin Films. All rights reserved

