



# Melinex®

polyester film

MXTD204 Issue 5  
**Melinex® 401**

Melinex® 401 is a sparkling clear film with good handling qualities. The film, specially treated to give a slippery surface on one side, is suitable for applications where very high transparency is important. Melinex® 401 is supplied in knurled reel form and is currently available at 50, 75, 100, 125 micron.

## TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value
<b>General</b>			<b>Thickness <math>\mu\text{m}</math></b>
Area Yield		$\text{m}^2/\text{kg}$	<b>50 75 100</b> 14.4 9.6 7.2
Relative Density	ASTM D 1505-79 (modified to Melinex test method)		1.4
<b>Mechanical</b>			MD* TD**
Tensile strength at break	ASTM D 882-83 (23°C at 50% rh strain rate 50%min)	$\text{kgf}/\text{mm}^2$	19 28
Elongation at break	As above	%	155 85
Slip (coefficient of static friction)	ASTM D 1894-78 (modified to Melinex test method)		<1.0
F5		$\text{kgf}/\text{mm}^2$	11 11
<b>Optical</b>			
Haze	ASTM D 1003-78 (measured on Gardner Hazemeter)		<0.6 <1 <1
<b>Thermal</b>			
Upper melt temperature	ASTM E794-85	$^{\circ}\text{C}$	255 - 260
Coefficient of thermal expansion (between 20 and 50°C)		1/K (cm/cm deg C)	$19 \times 10^{-6}$ (MD) $19 \times 10^{-6}$ (TD)
Shrinkage (at 150°C)		%	1.0(MD) 0.7(TD)

Enquiries should be addressed to:

DuPont Teijin Films (Luxembourg) SA  
 BP 1681  
 L-1016 Luxembourg  
 Telephone: +352 2616 4004  
 Fax No: +352 2616 5000

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**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-DTF.

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