



# Melinex®

polyester film

MXTD229 Issue 1

## Melinex® 725

Melinex® 725 is a sparkling optically clear knurled film with an adhesion promoting pre treatment on both surfaces. It is normally used in the Graphics industry where its' excellent clarity and printing/coating adhesion are utilised particularly when UV cured inks are used in multipass applications.

Melinex® 725 is available in thicknesses of 125, 175 and 250 micron.

### TYPICAL VALUES OF PROPERTIES

Property	Test Methods	Unit	Value		
			Thickness mic		
General			125	175	250
Area Yield	--	m <sup>2</sup> /kg	5.7	4.0	2.8
Relative Density (at 23°C)	ASTM D 1505-79 (modified to Melinex test method)	--	1.4		
Mechanical			MD*	TD**	
Minimum Tensile strength at break	ASTM D 882-83 (Strain rate 50%/min)	kgf/mm <sup>2</sup>	17.5	17.5	
F5 (force to elongate 5% of gauge length)	ASTM D 882 (50% strain rate)	kgf/mm <sup>2</sup>	10	10	
Optical			Thickness mic		
Haze	ASTM D1003-77 (Measured on Gardner Hazemeter)		125	175	250
			<2.0	<2.0	<2.5

## Thermal

Upper Melt temperature	ASTM E794-85	°C	255 - 260
Coefficient of thermal expansion between 20 and 50°C	--	cm/cm°C	19 x 10 <sup>-6</sup> (MD) 16 x 10 <sup>-6</sup> (TD)
Shrinkage (after 5 mins at 190°C)	Melinex Method	%	1.0 (MD) 0.3(TD)

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

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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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