



DuPont Teijin Films™

MELINEX® TCH12

Product Description

MELINEX® TCH12 is a crystal clear, high gloss, polyester film engineered to maintain low haze after high temperature exposure. Both sides are pretreated with a primer designed to index match to hardcoats used for touch panel and flexible electronic applications.

Approvals

UL Recognition - Product has been registered with Underwriters Laboratories.

Typical Properties

Available Thickness [Gauge]
300; 400; 500

Property	Thickness	Value	Units	Test
ELECTRICAL				
Dielectric Constant	500	2.9		ASTM D150
Dielectric Strength	500	3,000	volts/mil	ASTM D149
Surface Resistivity	500	10 ¹³	Ohms/sq	ASTM D257
Volume Resistivity	500	10 ¹⁷	Ohms-cm	ASTM D257
OPTICAL				
Haze	500	0.3	%	ASTM D1003
Total Light Transmission (TLT)	500	>90	%	ASTM D1003
PHYSICAL				
C.O.F. (static)	500	<0.6		ASTM D1894
Elongation at Break MD	500	190	%	ASTM D882A
Elongation at Break TD	500	120	%	ASTM D882A
Tensile Strength MD	500	25,000	psi	ASTM D882A
Tensile Strength TD	500	28,000	psi	ASTM D882A
THERMAL				
Coefficient of Hydrolytic Expansion	500	6X10 ⁻⁶	in/in/% RH	40% - 80% RH
Coefficient of Thermal Expansion	500	10X10 ⁻⁶	in/in/°F	(68 - 122 °F)
Shrinkage MD (150°C)	500	1.0	%	Unrestrained @150°C/30 min
Shrinkage TD (150°C)	500	0.5	%	Unrestrained @150°C/30 min

Contact Info

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Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body ([DuPont Teijin](#))

[Films Medical Policy](#)). For other medical applications, see the [Medical Caution Statement](#). DuPont Teijin Films accepts no liability for use of its products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

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