



DuPont Teijin Films™

MELINEX® STCH21

Product Description

MELINEX® STCH21 is a super clear, high gloss heat stabilized polyester film engineered to maintain low haze after high temperature exposure. One side is pretreated for adhesion.

Typical Properties

Available Thickness [Gauge]
200; 300; 400

Property	Thickness	Value	Units	Test
ELECTRICAL				
Dielectric Constant	200-400	2.9		ASTM D150
Dielectric Strength		3,000	volts/mil	ASTM D149
Surface Resistivity	200-400	10 ¹³	Ohms/sq	ASTM D257
Volume Resistivity		10 ¹⁷	Ohms-cm	ASTM D257
OPTICAL				
Haze	200-400	0.2 - 0.5	%	ASTM D1003
Total Light Transmission (TLT)	200-400	>90	%	ASTM D1003
PHYSICAL				
C.O.F. (static)	200-400	<0.6		ASTM D1894
Elongation at Break MD	200-400	160	%	ASTM D882A
Elongation at Break TD	200-400	100	%	ASTM D882A
Tensile Strength MD (break)	200-400	23,000	psi	ASTM D882A
Tensile Strength TD (break)	200-400	30,000	psi	ASTM D882A
THERMAL				
Coefficient of Hydrolytic Expansion		6X10 ⁻⁶	in/in/% RH	40% - 80% RH
Coefficient of Thermal Expansion	200-400	10X10 ⁻⁶	in/in/°F	(68 - 122 °F)
Shrinkage MD (150°C)	200-400	0.1	%	Unrestrained @150°C/30 min
Shrinkage TD (150°C)	200-400	0.02	%	Unrestrained @150°C/30 min

Contact Info

DuPont Teijin Films U.S. Limited Partnership
 3600 Discovery Drive
 Chester, VA 23836 USA
 Tel: (800) 635-4639
 Fax: (804) 530-9867

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.

Melinex®, Mylar® and Melinex® ST™ are registered trademarks of DuPont Teijin Films U.S. Limited Partnership.