

DuPont Teijin Films Melinex® 542 Polyester Film

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

Melinex® 542 is a slightly hazy film with an adhesion promoting pretreatment on both sides. General Product Info: The pretreatment enables numerous solvent and UV inks and lacquers to be coated with excellent adhesion. The film is tear resistant, has excellent handling characteristics and also good dimensional stability when exposed to variations in temperature and humidity. Typical Applications: This film was primarily developed for use in the Reprographics industry. Approvals: UL Recognition - Product has been registered with Underwriters Laboratories. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-542-Polyester-Film.php

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	193 MPa	28000 psi	50% strain rate; ASTM D882A
Film Tensile Strength at Break, TD	255 MPa	37000 psi	50% Strain rate; ASTM D882A

Thermal Properties	Metric	English	Comments
Melting Point	255 - 260 °C	491 - 500 °F	ASTM E794-85
Shrinkage, MD	2.5 % @Temperature 190 °C, Time 300 sec	2.5 % @Temperature 374 °F, Time 0.0833 hour	Unrestrained
Shrinkage, TD	0.50 % @Temperature 190 °C, Time 300 sec	0.50 % @Temperature 374 °F, Time 0.0833 hour	Unrestrained

Optical Properties	Metric	English	Comments
Haze	<= 9.0 % @Thickness 0.0361 mm	<= 9.0 % @Thickness 0.00142 in	Gardner Hazemeter; ASTM D1003-77
	<= 13 % @Thickness 0.0500 mm	<= 13 % @Thickness 0.00197 in	Gardner Hazemeter; ASTM D1003-77
	<= 14 % @Thickness 0.0752 mm	<= 14 % @Thickness 0.00296 in	Gardner Hazemeter; ASTM D1003-77
	<= 23 % @Thickness 0.100 mm	<= 23 % @Thickness 0.00394 in	Gardner Hazemeter; ASTM D1003-77

Optical Properties	<div><= 26 %</div> Metric	<div><= 26 %</div> English	Comments
	@Thickness 0.125 mm	@Thickness 0.00493 in	Colorimeter, ASTM D1003-77

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