

DuPont Teijin Films Melinex® 505 Polyester Film

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

Material Notes:

Melinex® 505 is a high clarity polyester film which is pretreated on both sides to promote adhesion to most industrial coating and inks. Approvals: UL 94 VTM-2 - for 1000 gauge (0.26mm) only. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-505-Polyester-Film.php

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	96.5 MPa	14000 psi	ASTM D882A
Film Tensile Strength at Yield, TD	96.5 MPa	14000 psi	ASTM D882A
Film Elongation at Break, MD	180 %	180 %	ASTM D882A
Film Elongation at Break, TD	105 %	105 %	ASTM D882A
Coefficient of Friction, Static	0.50	0.50	ASTM D1894
Film Tensile Strength at Break, MD	179 MPa	26000 psi	ASTM D882A
Film Tensile Strength at Break, TD	228 MPa	33000 psi	ASTM D882A

Thermal Properties	Metric	English	Comments
Shrinkage, MD	2.5 %	2.5 %	Unrestrained
	@Temperature 190 °C, Time 300 sec	@Temperature 374 °F, Time 0.0833 hour	
Shrinkage, TD	1.0 %	1.0 %	Unrestrained
	@Temperature 190 °C, Time 300 sec	@Temperature 374 °F, Time 0.0833 hour	

Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
	@Thickness 0.0762 mm	@Thickness 0.00300 in	
	0.30 %	0.30 %	
	@Thickness 0.102 mm	@Thickness 0.00400 in	
	0.40 %	0.40 %	
	@Thickness 0.127 mm	@Thickness 0.00500 in	ASTM D1003
	0.50 %	0.50 %	ASTM D1003

Optical Properties	@Thickness 0.165 mm Metric	@Thickness 0.00650 in English	Comments
	0.60 %	0.60 %	ASTM D1003
	@Thickness 0.178 mm	@Thickness 0.00700 in	
Transmission, Visible	87 %	87 %	TLT; ASTM D1003
	@Thickness 0.178 mm	@Thickness 0.00700 in	
	87.2 %	87.2 %	TLT; ASTM D1003
	@Thickness 0.165 mm	@Thickness 0.00650 in	
	88 %	88 %	TLT; ASTM D1003
	@Thickness 0.127 mm	@Thickness 0.00500 in	
	88.3 %	88.3 %	TLT; ASTM D1003
	@Thickness 0.102 mm	@Thickness 0.00400 in	
	88.5 %	88.5 %	TLT; ASTM D1003
	@Thickness 0.0762 mm	@Thickness 0.00300 in	

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