

DuPont Teijin Films Melinex® S Polyester Film, 142 Gauge

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

Material Notes:

Melinex® S is a general purpose film which combines excellent handling characteristics with a slightly hazy appearance. It is available in specific thicknesses from 48 - 500 gauge, and is used for the full range of Melinex® applications. Approvals: UL 94 VTM-2 - for 92 - 500 gauge (0.023 - 0.13mm) and 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-S-Polyester-Film-142-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	100 MPa	14500 psi	ASTM D882A
Film Tensile Strength at Yield, TD	99.3 MPa	14400 psi	ASTM D882A
Film Elongation at Break, MD	160 %	160 %	ASTM D882A
Film Elongation at Break, TD	100 %	100 %	ASTM D882A
Coefficient of Friction, Dynamic	0.40	0.40	A-B; ASTM D1894
Film Tensile Strength at Break, MD	200 MPa	29000 psi	ASTM D882A
Film Tensile Strength at Break, TD	255 MPa	37000 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	0.50 %	0.50 %	Unrestrained
	@Temperature 190 °C, Time 300 sec	@Temperature 374 °F, Time 0.0833 hour	

Optical Properties	Metric	English	Comments
Haze	7.5 %	7.5 %	ASTM D1003
Transmission, Visible	86.5 %	86.5 %	TLT; ASTM D1003

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+17 ohm-cm Metric	1.00e+17 ohm-cm English	Comments
Volume Resistivity	@Temperature 25.0 °C, Time 100 sec	@Temperature 77.0 °F, Time 0.0278 hour	100 V DC; ASTM D257
Surface Resistivity per Square	1.00e+15 ohm @Temperature 25.0 °C	1.00e+15 ohm @Temperature 77.0 °F	500 V DC @ 50% RH; ASTM D257
Dielectric Strength	230.1 kV/mm	5845 kV/in	0.25 inch electrodes in dry air @25°C; ASTM D149-81
Dielectric Breakdown	8300 V	8300 V	0.25 inch electrodes in dry air @25°C; ASTM D149-81

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