

DuPont Teijin Films Mylar® E Polyester Film, 48 Gauge

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

Material Notes:

Mylar® E polyester film is a clear smooth base film engineered to provide superior optical and physical properties required of critical dyeing, metallizing, laminating, labeling and coating applications while processing excellent winding and handling characteristics. General Product Info: Mylar® E polyester film combines the optical properties of low haze, high clarity in a base film with the surface characteristics need for high speed converting and winding without the effect of grainy haze. Its physical strength and dimensional stability are ideally suited for both converting ease and end-use performance. Typical Applications: Mylar® E polyester film is particularly suitable for use in solar film applications as well as other critical applications requiring the unique balance of superior optical and excellent handling characteristics. Approvals: FDA Food Contact Status - All gauges of Mylar® E comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. Uncoated films such as Mylar® E can be used to contain foods during oven cooking or oven baking at temperatures above 250 °F. UL 94 VTM-2 - for 92 gauge (0.13mm) only. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-E-Polyester-Film-48-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	>= 75 %	>= 75 %	ASTM D882A
Film Elongation at Break, TD	>= 55 %	>= 55 %	ASTM D882A
Film Tensile Strength at Break, MD	152 MPa	22000 psi	ASTM D882A
Film Tensile Strength at Break, TD	165 MPa	24000 psi	ASTM D882A

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.17 J/g-°C	0.280 BTU/lb-°F	Typical Mylar®
Melting Point	254 °C	489 °F	Typical Mylar® via DSC
Maximum Service Temperature, Air	121 °C	250 °F	
Shrinkage, MD	1.9 % @Temperature 150 °C, Time 1800 sec	1.9 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.4 % @Temperature 150 °C, Time 1800 sec	1.4 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®
Haze	0.90 %	0.90 %	ASTM D1003

Descriptive Properties	Value	Comments
Wyco Ra	11 nm	M930.8500
Yield (nominal)	41300 in ² /lb	

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