

DuPont Teijin Films Mylar® 823 Polyester Film, 48 Gauge

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

Material Notes:

Mylar® 823 is a two side, differentially pretreated, polyester film designed to provide excellent adhesion in print and lamination applications. Approvals: FDA Food Contact Status - All gauges of Mylar® 823 comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers, Sections (f) and (g). This regulation describes films which may be safely used in contact with all types of food, excluding alcoholic beverages, at temperatures not to exceed 250°F. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-823-Polyester-Film-48-Gauge.php

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

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	110 %	110 %	ASTM D882A
Film Elongation at Break, TD	70 %	70 %	ASTM D882A
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D1894
Coefficient of Friction, Static	0.50	0.50	ASTM D1894
Film Tensile Strength at Break, MD	214 MPa	31000 psi	ASTM D882A
Film Tensile Strength at Break, TD	241 MPa	35000 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	1.25 % @Temperature 150 °C, Time 1800 sec	1.25 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	0.50 % @Temperature 150 °C, Time 1800 sec	0.50 % @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®

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	TLT; ASTM D1003

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	6 cc/100 in ²	O ₂ , 24 hr; ASTM D1434 (77°F/75% RH/1 ATM)
Yield (nominal)	42000 in ² /lb	

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