

DuPont Teijin Films Mylar® X842 Polyester Film, 48 Gauge

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

Material Notes:

Mylar® X842 is a clear polyester film that has been chemically treated on both sides for the packaging converting market. One side is chemically treated for metal adhesion. The other side is chemically treated for print/PE extrusion. Approvals: FDA Food Contact Status - All gauges of Mylar® X842 comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers, sections (f) and (h). These regulations describe films that can safely be used in contact with all types of foods, excluding alcoholic beverages. The films listed above can be used to contain foods during oven cooking at temperatures up to and above 250°F. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-X842-Polyester-Film-48-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	
Water Vapor Transmission	43.5 g/m ² /day @Temperature 38.0 °C	2.80 g/100 in ² /day @Temperature 100 °F	90% RH; ASTM F1249

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
Film Tensile Strength at Break, MD	214 MPa	31000 psi	ASTM D882A
Film Tensile Strength at Break, TD	290 MPa	42000 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
Haze	3.5 %	3.5 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	6 cc/100 in ²	O ₂ , metallized; ASTM D1434
Yield (nominal)	42200 in ² /lb	

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