DuPont Teijin Films Mylar® 851H Polyester Film, 60 Gauge

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

Material Notes:

Mylar® 851H (also called Mylar® 851) is a co-extruded, one side amorphous, heat sealable polyester film designed to be used in metallization, print, and lamination applications. This film is suitable for use in contact with food. Mylar® 851H has a thicker heat sealable layer than Mylar® 850H.Approvals: FDA Food Contact Status - All gauges of Mylar® 851H (or Mylar® 851) 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® 851H (or Mylar® 851) can be used to contain foods during oven cooking or oven baking at temperatures above 250 °F.Information provided by DuPont.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-851H-Polyester-Film-60-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in³	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	100 %	100 %	ASTM D882A
Film Elongation at Break, TD	90 %	90 %	ASTM D882A
Coefficient of Friction, Dynamic	0.50	0.50	A-B; ASTM D1894
Coefficient of Friction, Static	0.60	0.60	ASTM D1894
Film Tensile Strength at Break, MD	172 MPa	25000 psi	ASTM D882A
Film Tensile Strength at Break, TD	186 MPa	27000 psi	ASTM D882A
Heat Seal Strength Initiation Temperature	104 - 204 °C	220 - 400 °F	

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	0.30 % @Temperature 150 °C, Time 1800 sec	0.30 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Thermal Properties	Metric	English	Comments
Optical Properties	**Metric**	**English**	**Comments**
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®
Haze	3.5 %	3.5 %	ASTM D1003
Transmission, Visible	88.6 %	88.6 %	TLT; ASTM D1003

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	5 cc/100 in^2	O2, 24 hr; ASTM D1434 (77°F/75% RH/1 ATM)
Yield (nominal)	33800 in^2/lb	

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