

DuPont Teijin Films Mylar® LBTW Polyester Film, 92 Gauge

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

Material Notes:

Mylar® LBTW is an uncoated, transparent polyester film that has been corona treated on one side to provide superior wetting and adhesion of inks, primers, and adhesives. Mylar® LBTW is commercially available in nominal 48, 75 and 92 gauges. Mylar® LBTW is wound inverted with the corona-treated side facing the outside of the roll General Product Info: In addition to the enhanced wettability offered to inks, primers, adhesives and coatings, Mylar® LBTW offers all of the properties attributed to Mylar® LB, including high levels of strength, temperature resistance and flavor and odor barriers. Its sparkling clarity and insensitivity to humidity make Mylar® LBTW a preferred print carrier. Typical Applications: Mylar® LBTW typically is used as the reverse printed outer ply of a lamination with inner plies providing additional oxygen barrier if needed, as well as heat sealability. The availability of the two-side corona-treated Mylar® LBT2 permits use where the ply will be buried inside a lamination with bonding to both surfaces or where the exposed outer surface will subsequently receive surface printing, code dating or some for of package lot identification. Approvals: FDA Food Contact Status - All gauges of Mylar® LBTW comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers, sections (f), (g) and (h). These regulations describe films that can safely be used in contact with all types of foods including alcoholic beverages that do not exceed 50% alcohol by volume. The films listed above can be used to contain foods during oven cooking at temperatures up to and above 250°F. The films listed above may be used for packaging, transporting, or holding alcoholic beverages that do not exceed 50% alcohol by volume. UL Recognition - Product has been registered with Underwriters Laboratories. UL 94 VTM-2 - for 92 - 500 gauge (0.023 - 0.13mm) UL Recognition - for 92 - 500 gauge (0.023 - 0.13mm) - HWI=5, HAI=4, CTI=1 Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-LBTW-Polyester-Film-92-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505
Water Vapor Transmission	20.2 g/m ² /day @Temperature 38.0 °C	1.30 g/100 in ² /day @Temperature 100 °F	90% RH; ASTM F1249
Coating Weight	31.5 g/m ²	19.7 lb/ream	0.5 m²; ASTM E252

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	140 %	140 %	ASTM D882A
Film Elongation at Break, TD	80 %	80 %	ASTM D882A
Tensile Modulus	3.79 GPa	550 ksi	ASTM D882
Graves Tear Strength	0.193 kN/m	1.10 pli	ASTM D1004
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882A
Film Tensile Strength at Break, TD	276 MPa	40000 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
Shrinkage, MD	1.6 % @Temperature 150 °C, Time 1800 sec	1.6 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.6 % @Temperature 150 °C, Time 1800 sec	1.6 % @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	9.0 %	9.0 %	ASTM D1003
Gloss	150 %	150 %	20°; ASTM D2457
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 - 600 V	400 - 600 V	
Hot Wire Ignition, HWI	<= 7.0 sec	<= 7.0 sec	
High Amp Arc Ignition, HAI	<= 15 arcs	<= 15 arcs	

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	5 cc/100 in ²	O ₂ , 24 hr; ASTM D3985 (77°F/75% RH/1 ATM)
Yield (nominal)	22000 in ² /lb	

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