

DuPont Teijin Films Mylar® LBT Polyester Film, 48 Gauge (12 µm)

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

Material Notes:

Data provided by DuPont Packaging Polymers. An uncoated, transparent polyester film that has been corona-treated to provide superior wetting and adhesion to inks, primers, and adhesives. Standard thicknesses include 48, 75, and 92 gauges. Other gauges may be available on special request. Typically used as the reverse printed outer ply of a lamination with inner plies providing additional oxygen barrier if needed, as well as heat sealability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-LBT-Polyester-Film-48-Gauge-12-m.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	Average value for Mylar® films.
Moisture Vapor Transmission	0.500 cc-mm/m ² -24hr-atm	1.27 cc-mil/100 in ² -24hr-atm	ASTM E96 Procedure E
Water Vapor Transmission	43.0 g/m ² /day	2.77 g/100 in ² /day	ASTM E96 Procedure E
Oxygen Transmission	1.70 cc-mm/m ² -24hr-atm	4.32 cc-mil/100 in ² -24hr-atm	or 140 cc/m ² -24hr-atm for the film. ASTM D3985

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	110 %	110 %	ASTM D882
Film Elongation at Break, TD	80 %	80 %	ASTM D882
Modulus of Elasticity	3.79 GPa	550 ksi	(stiffness), ASTM D882
Tear Strength Test	300	300	Graves, g; ASTM D1004
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882
Film Tensile Strength at Break, TD	234 MPa	33900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	May be used to contain foods during baking above this temperature.
Shrinkage	2.2 % @Temperature 150 °C, Time 1800 sec	2.2 % @Temperature 302 °F, Time 0.500 hour	Film shrinkage in oven.

Optical Properties	Metric	English	Comments
Haze	4.5 %	4.5 %	ASTM D1003

<small>Gloss</small> Optical Properties	<small>200 %</small> Metric	<small>200 %</small> English	<small>20"- ASTM D2457</small> Comments
Transmission, Visible	76 %	76 %	% Clarity; ASTM D1746

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