

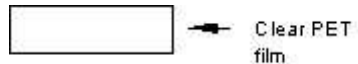
DuPont Teijin Films™

MYLAR® LB

Product Description

Mylar® LB is an uncoated, transparent, polyester film designed for use as a component of a lamination structure. Mylar® LB is commercially available in nominal 48, 75 and 92 gauges.

Mylar® LB is available with corona treatment on one or both sides. These products are known as Mylar® LBT and LBT2 respectively.



General Product Info

Mylar® LB polyester film frequently is selected as a component of a laminated structure because of its ability to contribute great strength, high temperature resistance and flavor/odor barrier. Its sparkling clarity and relative insensitivity to heat and humidity make it an ideal print carrier and outer ply of many laminated food packaging structures. Retention of properties over a temperature range from -100°F to 300°F permits uses requiring freezer storage temperatures followed by heating for warming, cooking or ovenable applications. The chemical resistance and barrier to acids, weak bases, greases and oils, detergents and other active ingredients make LB useful in containing many "hard-to-hold" food or non-food products. Mylar® LB is not degraded by standard sterilization procedures involving steam retorts, gamma or cobalt radiation, ethylene oxide gas exposure or hydrogen peroxide immersion.

Typical Applications

A basic lamination would combine plain or printed LB with a heat sealable ply consisting of LDPE, LLDPE, EVA, ionomer, acid copolymer, PVC or other materials using adhesive or extrusion laminating techniques. Such structures might be suitable for heat sealed pouches for frozen foods, heat-in applications, packages not requiring high oxygen barrier, some condiments and some medical device applications. If greater gas barrier is required, a layer of foil, PVdC or EVOH may be inserted between the LB and the sealant layer, or barrier adhesives or sealant layers may be utilized. Typical applications might include processed meats, condiments, nuts, cheese, sauces and dry mixes.

Fig. 1

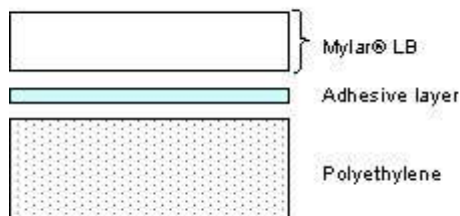
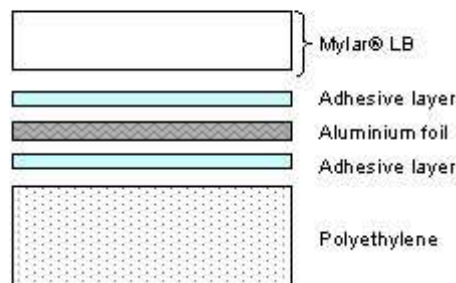


Fig. 2



Approvals

Food Contact Status - Please contact your DuPont Teijin Films representative to receive the Regulatory Compliance documents

UL 94 VTM-2 - for 92 gauge (0.023mm) only

Disposal

Dispose of in compliance with federal, state and local regulations. Preferred options for disposal are (1) recycling, (2) incineration with energy recovery and (3) landfill. The high fuel value of this product makes option No. 2 very desirable for material that cannot be recycled.

Typical Properties

Available Thickness [Gauge]

48; 75; 92

Property	Thickness	Value	Units	Test
BARRIER				
Gas Permeability - O ₂ , 24 hr	48	9	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	75	7	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	92	5	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
WVTR	48	2.8	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	75	1.9	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	92	1.3	g/100 in ² /day	ASTM F1249 38°C, 90% RH
OPTICAL				
Clarity	48	76	%	ASTM D1746
Clarity	75	73	%	ASTM D1746
Clarity	92	70	%	ASTM D1746
Haze	48	4.0	%	ASTM D1003
Haze	75	6.5	%	ASTM D1003
Haze	92	9.0	%	ASTM D1003
PHYSICAL				
Elongation at Break MD	48	110	%	ASTM D882A
Elongation at Break MD	75	130	%	ASTM D882A
Elongation at Break MD	92	140	%	ASTM D882A
Elongation at Break TD	48	80	%	ASTM D882A
Elongation at Break TD	75	100	%	ASTM D882A
Elongation at Break TD	92	80	%	ASTM D882A
Modulus	48 - 92	550	kpsi	ASTM D822
Tear (Graves)	48	0.7	lb	ASTM D1004
Tear (Graves)	75	0.9	lb	ASTM D1004
Tear (Graves)	92	1.1	lb	ASTM D1004
Tensile Strength MD (break)	48	27	kpsi	ASTM D882A
Tensile Strength MD (break)	75	29	kpsi	ASTM D882A
Tensile Strength MD (break)	92	27	kpsi	ASTM D882A
Tensile Strength TD (break)	48	34	kpsi	ASTM D882A
Tensile Strength TD (break)	75	35	kpsi	ASTM D882A
Tensile Strength TD (break)	92	40	kpsi	ASTM D882A
Unit Weight	48	10.4	in ² /lb	ASTM E252 (0.5 m ²)
Unit Weight	75	16.2	in ² /lb	ASTM E252 (0.5 m ²)
Unit Weight	92	19.7	in ² /lb	ASTM E252 (0.5 m ²)
Yield (nominal)	48	41,700	in ² /lb	
Yield (nominal)	75	26,700	in ² /lb	
Yield (nominal)	92	22,000	in ² /lb	
THERMAL				
Shrinkage MD (150°C)	48	2.2	%	Unrestrained @ 150°C/30 min
Shrinkage MD (150°C)	75	2.2	%	Unrestrained @ 150°C/30 min
Shrinkage MD (150°C)	92	1.6	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	48	1.3	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	75	1.1	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	92	1.6	%	Unrestrained @ 150°C/30 min

Standard Put-ups

Core I.D. (Inches)	Roll O.D. (Inches)	Thickness (Gauge)	Length (Feet)
3	9 1/2 ± 1/4	48	10,600
3	9 1/2 ± 1/4	75	6,800
3	9 1/2 ± 1/4	92	5,600
3	13 ± 1/4	48	21,300
3	13 ± 1/4	75	13,600
3	13 ± 1/4	92	11,200
3	18 ± 1/4	48	42,400
3	18 ± 1/4	75	27,200
3	18 ± 1/4	92	22,300
6	11 ± 1/4	48	10,600
6	11 ± 1/4	75	6,800
6	11 ± 1/4	92	5,600

6	14 ± 1/4	48	20,800
6	14 ± 1/4	75	13,400
6	14 ± 1/4	92	11,000
6	18 ± 1/4	48	38,300
6	18 ± 1/4	75	24,500
6	18 ± 1/4	92	20,200
6	22 1/2 ± 1/4	48	63,100
6	22 1/2 ± 1/4	75	40,400
6	22 1/2 ± 1/4	92	33,200
6	24 ± 1/4	48	72,600
6	24 ± 1/4	75	46,500
6	24 ± 1/4	92	38,200

Contact Info

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Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

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