DuPont Teijin Films™

MYLAR® MLB

Product Description

Mylar® MLB is an uncoated, transparent, polyester film designed for use as a component of a lamination structure and may be suitable for use in medical applications. Mylar® MLB is commercially available in nominal 48 and 300 gauge.

Mylar® MLB is available with corona treatment on one or both sides. These products are known as Mylar® MLBT and MLBT2 respectively and are not offered in the 300 gauge range.

General Product Info

Mylar® MLB 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 Mylar® MLB useful in containing many "hard-to-hold" food or non-food products. Mylar® MLB 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 Mylar® MLB 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 Mylar® MLB 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

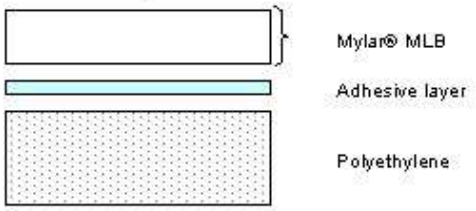
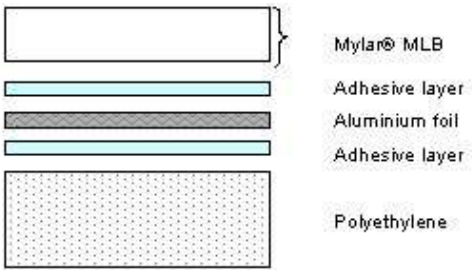


Fig. 2



Approvals

Food Contact Status - Please contact your DuPont Teijin Films representative to receive the Regulatory Compliance documents
Drug Master File - This product is listed in our Drug Master File.

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; 300

Property	Thickness	Value	Units	Test
BARRIER				

Gas Permeability - O2, 24 hr	48	9	cc/100 in²	ASTM D3985 22ºC/75% RH/1 ATM
WVTR	48	2.8	g/100 in²/day	ASTM F1249 38°C, 90% RH
OPTICAL				
Clarity	48	76	%	ASTM D1746
Haze	48	4.0	%	ASTM D1003
Haze	300	10.5	%	ASTM D1003
PHYSICAL				
Elongation at Break MD	48	110	%	ASTM D882A
Elongation at Break TD	48	80	%	ASTM D882A
Modulus	48	550	kpsi	ASTM D882
Tear (Graves)	48	0.7	lb	ASTM D1004
Tensile Strength MD (break)	48	27	kpsi	ASTM D882A
Tensile Strength MD (break)	300	23	kpsi	ASTM D882A
Tensile Strength TD (break)	48	34	kpsi	ASTM D882A
Tensile Strength TD (break)	300	23	kpsi	ASTM D882A
Unit Weight	48	10.4	in²/lb	ASTM E252 (0.5 m²)
Yield (nominal)	48	41,700	in²/lb	
THERMAL				
Shrinkage MD (150°C)	48	2.2	%	Unrestrained @ 150°C/30 min
Shrinkage MD (190°C)	300	2.5	%	Unrestrained @ 190°C/5 min
Shrinkage TD (150°C)	48	1.3	%	Unrestrained @ 150°C/30 min
Shrinkage TD (190°C)	300	0.5	%	Unrestrained @ 190°C/5 Min

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.

CAUTION: Do not use in medical applications involving permanent implantation in the human body (DuPont Teijin Films Medical Policy). For other medical applications, see the Medical Caution Statement. DuPont Teijin Films accepts no liability for use of it's products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.