DuPont Teijin Films™

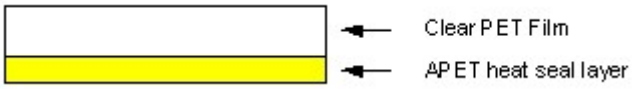
MYLAR® OL2

Product Description

Mylar® OL2 is a biaxially oriented polyester (OPET) film with an amorphous polyester heat seal layer. It is used as a heat sealable lidding film in packaging refrigerated and frozen foods. Mylar® OL2 is commercially available in nominal 50, 75 and 100 gauges.

Mylar® OL2 can withstand freezing temperatures down to -40°F, and foods can be heated or cooked in contact with this film at temperatures up to 400°F. The oriented polyester base film will begin to distort in the range of 425-450°F.

Mylar® OL2 is dual ovenable film which provides good, generally peelable seals to polar substrates such as amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, and polyvinylchloride (PVC). Mylar® OL2 does not seal to polyethylene, polypropylene, or polystryrene. DuPont Teijin Films offers another family of lidding films (RL types) for sealing to these substrates.



Similar to Mylar® OL, heat seals with Mylar® OL2 are designed to be self venting and generally strippable from the above containers. Mylar® OL2 has a thicker seal layer than Mylar® OL and is recommended when the sealant thickness of Mylar® OL is not sufficient to make intimate contact with mating surface of the container. Mylar® OL2 produces higher seal strengths to most substrates than does Mylar® OL, and lower gauges tend to shred (film tear or break) more than Mylar® OL when peeled in cold environments. Shredding (film tear or break) can be minimized by using higher gauges.

Fig. 1

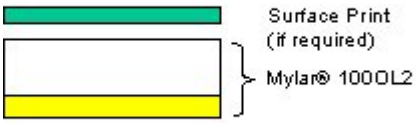
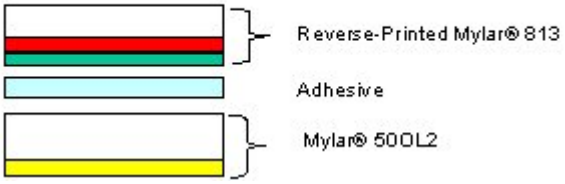


Fig. 2



Special Features

Corona Treatment (Mylar® OL2T): Selected gauges of Mylar® OL2 are available with corona treatment (on the side opposite the heat seal layer) to enhance printing and laminating. This film type is marketed by DuPont Teijin Films as Mylar® OL2T. The film is treated to an initial dyne level of 54. The dyne level of treated lidding films may decline with storage, and in-line corona treatment may be required during subsequent printing or laminating to increase the dyne level to a value adequate to get desired ink or laminate adhesion. Standard put-ups for Mylar® OL2T are the same as shown for Mylar® OL2.

Anti-fog (Mylar® OLAF, OLAT): Selected gauges of Mylar® OL2 lidding films are available with anti-fogging capability to provide better clarity when stored and displayed in refrigerated conditions. This film type is marketed by DuPont Teijin Films as Mylar® OLAF. Mylar® OLAF is also available with corona treatment on the side opposite the heat seal layer. This film is marketed by DuPont Teijin Films as Mylar® OLAT.

Approvals

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

Disposal

Disposal of Mylar® OL2 (as well as OL2T, OLAF, OLAFT) does not present special disposal problems. It can be buried as a relatively inert material in a landfill or burned in an incinerator with normal refuse. The incinerator should have sufficient draft to exhaust all combustion products through the stack to avoid exposure to irritating fumes. The disposal method should comply with local, state and federal regulations.

Typical Properties

Available Thickness [Gauge]
50; 75; 100

Property	Thickness	Value	Units	Test
BARRIER				
Gas Permeability - O2, 24 hr	50	9	cc/100 in²	ASTM D3985 22ºC/75% RH/1 ATM
Gas Permeability - O2, 24 hr	75	7	cc/100 in²	ASTM D3985 22ºC/75% RH/1 ATM
Gas Permeability - O2, 24 hr	100	5	cc/100 in²	ASTM D3985 22ºC/75% RH/1 ATM
WVTR	50	2.8	g/100 in²/day	ASTM F1249 38°C, 90% RH
WVTR	75	1.9	g/100 in²/day	ASTM F1249 38°C, 90% RH
WVTR	100	1.3	g/100 in²/day	ASTM F1249 38°C, 90% RH
PHYSICAL				
Elongation at Break MD	50 - 100	110	%	ASTM D882A
Elongation at Break TD	50 - 100	80	%	ASTM D882A
Modulus	50 - 100	550	kpsi	ASTM D822
Tear (Graves)	50	0.7	lb	ASTM D1004
Tear (Graves)	75	0.9	lb	ASTM D1004
Tear (Graves)	100	1.1	lb	ASTM D1004
Tensile Strength MD (break)	50 - 100	25	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 100	35	kpsi	ASTM D882A
Unit Weight	50	12.5	lb/ream	ASTM E252 (0.5 m²)
Unit Weight	75	18.3	lb/ream	ASTM E252 (0.5 m²)
Unit Weight	100	22.0	lb/ream	ASTM E252 (0.5 m²)
Yield (nominal)	50	34,600	in²/lb	
Yield (nominal)	75	23,600	in²/lb	
Yield (nominal)	100	19,600	in²/lb	

Standard Put-ups

Core I.D. (Inches)	Roll O.D. (Inches)	Thickness (Gauge)	Length (Feet)
3	9 1/2 ± 1/4	50	8,600
3	9 1/2 ± 1/4	75	5,900
3	9 1/2 ± 1/4	100	4,900
3	13 ± 1/4	50	17,400
3	13 ± 1/4	75	11,900
3	13 ± 1/4	100	9,900
6	11 ± 1/4	50	8,700
6	11 ± 1/4	75	5,900
6	11 ± 1/4	100	5,000
6	14 ± 1/4	50	17,000
6	14 ± 1/4	75	11,700
6	14 ± 1/4	100	9,700
6	18 ± 1/4	50	31,200
6	18 ± 1/4	75	21,400
6	18 ± 1/4	100	17,900

Contact Info

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Disclaimer

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.