

MYLAR® OL12

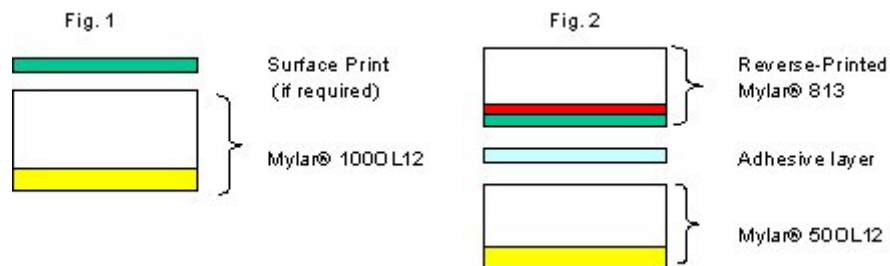
Product Description

Mylar® OL12 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® OL12 is commercially available in nominal 100 and 150 gauges.

Mylar® OL12 is dual ovenable film which provides strong, aggressive seals to polar substrates such as amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, and polyvinylchloride (PVC). Mylar® OL12 does not seal to polyethylene, polypropylene, or polystyrene. DuPont Teijin Films offers another family of lidding films (RL types) for sealing to these substrates.



Mylar® OL12 has higher hot tack and a thicker seal layer than either Mylar® OL or OL2, and can be used in hot fill applications. It is not recommended for applications requiring retort sterilization. Mylar® OL12 lidding films have excellent grease and oil resistance. Heat seals produced with Mylar® OL12 are stronger than with Mylar® OL2 (or OL) and may be difficult to peel without shredding.



Mylar® OL12 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.

Special Features

Corona Treatment (Mylar® OL12): Selected gauges of Mylar® OL12 are available with corona treatment (opposite the heat seal layer) to enhance printing and laminating. This film type is marketed by DuPont Teijin Films as Mylar® OL12T. 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® OL12T are the same as shown for Mylar® OL12.

Anti-fog (Mylar® OL12AF, OL12AT): Selected gauges of Mylar® OL12 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® OL12AF. Mylar® OL12AF is also available with corona treatment on opposite side of film from the heat seal layer. This film type is marketed by DuPont Teijin Films as Mylar® OL12AT. Standard put-ups for Mylar® OL12AF and OL12AT are the same as shown for Mylar® OL12.

Approvals

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

Disposal

Disposal of Mylar® OL12 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; 100; 150

Property	Thickness	Value	Units	Test
BARRIER				
Gas Permeability - O ₂ , 24 hr	50	9	cc/100 in ²	ASTM D3985 22°C/75% RH/1ATM
Gas Permeability - O ₂ , 24 hr	100	5	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	150	3	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
WVTR	50	2.8	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	100	1.3	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	150	0.9	g/100 in ² /day	ASTM F1249 38°C, 90% RH
PHYSICAL				
Elongation at Break MD	50 - 150	110	%	ASTM D882A
Elongation at Break TD	50 - 150	80	%	ASTM D882A
Modulus	50 - 150	550	kpsi	ASTM D822
Tear (Graves)	50	0.7	lb	ASTM D1004
Tear (Graves)	100	1.1	lb	ASTM D1004
Tear (Graves)	150	1.3	lb	ASTM D1004
Tensile Strength MD (break)	50 - 150	25	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 150	35	kpsi	ASTM D882A
Unit Weight	50	14.0	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	100	23.5	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	150	34.6	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	50	30,800	in ² /LB	
Yield (nominal)	100	18,400	in ² /lb	
Yield (nominal)	150	12,500	in ² /lb	

Standard Put-ups

Core I.D. (Inches)	Roll O.D. (Inches)	Thickness (Gauge)	Length (Feet)
3	9 1/2 ± 1/4	50	7,600
3	9 1/2 ± 1/4	100	4,600
3	9 1/2 ± 1/4	150	3,100
3	13 ± 1/4	50	15,300
3	13 ± 1/4	100	9,200
3	13 ± 1/4	150	6,300
6	11 ± 1/4	50	7,600
6	11 ± 1/4	100	4,600
6	11 ± 1/4	150	3,200
6	14 ± 1/4	50	15,000
6	14 ± 1/4	100	9,000
6	14 ± 1/4	150	6,200
6	18 ± 1/4	50	27,500
6	18 ± 1/4	100	16,600
6	18 ± 1/4	150	11,400

Contact Info

DuPont Teijin Films U.S. Limited Partnership
 3600 Discovery Drive
 Chester, VA 23836 USA
 Tel: (800) 635-4639
 Fax: (804) 530-9867

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 its 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.

Melinex®, Mylar® and Melinex® ST™ are registered trademarks of DuPont Teijin Films U.S. Limited Partnership. Teijin® and Tetoron® are registered trademarks of Teijin Limited used under license by DuPont Teijin Films U.S. Limited Partnership. Teonex® is a registered trademark of Teijin DuPont Films Japan Limited and is used under license by DuPont Teijin Films U.S. Limited Partnership.