



DuPont Teijin Films™

MYLAR® OL

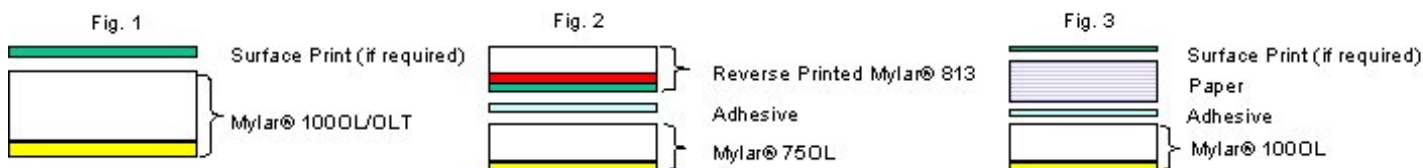
Product Description

Mylar® OL 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® OL is commercially available in nominal 50, 75, 100 and 150 gauges.

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



Heat seals with Mylar® OL are designed to be self venting and generally strippable from the recommended containers. Fifty (50) gauge film is more prone to shredding. Shredding (film tear or break) can be minimized or eliminated by using higher gauges.



Mylar® OL 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.

Table 1 - Heat Seal Strength (grams/inch) to Various Container Substrates

Container Substrate	Ambient: 72°F (23°C) 50% RH			Refrigerator: 32°F (0°C)			Freezer: 0°F (-18°C)		
	Seal Bar Temperature			Seal Bar Temperature			Seal Bar Temperature		
	300°F (149°C)	350°F (177°C)	400°F (204°C)	300°F (149°C)	350°F (177°C)	400°F (204°C)	300°F (149°C)	350°F (177°C)	400°F (204°C)
APET	++	++	++	++	++	++	++	++	++
CPET	+	++	++	+	++	++	+	+	+
PVC	++	++	++	++	++	++	++	++	++
HDPE									
PP									
HIPS									

Legend: + is 100 to 650 g/in; ++ 700 to 1250 g/in; +++ is 1300 to 1850 g/in; ++++ is > 1900 g/in

* Seals made with a SENTINEL® heat sealer at 20 psi bar pressure with a 0.5 second dwell time and a 1 inch seal bar

NOTE: These values are typical data for this Mylar® polyester film and are not intended for use as limiting specifications. For additional information contact your DuPont Teijin Films Representative

Special Features

Corona Treatment (Mylar® OLT): Selected gauges of Mylar® OL 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® OLT. 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® OLT are the same as shown for Mylar® OL.

Approvals

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

Disposal

Disposal of Mylar® OL (and OLT) 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; 150

Property	Thickness	Value	Units	Test
BARRIER				
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
Gas Permeability - O ₂ , 24 hr	50	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
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
WVTR	50	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
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)	100	1.1	lb	ASTM D1004
Tear (Graves)	150	1.3	lb	ASTM D1004
Tear (Graves)	50	0.7	lb	ASTM D1004
Tear (Graves)	75	0.9	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	100	21	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	150	32	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	50	11.5	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	75	17.3	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	100	20,600	in ² /lb	
Yield (nominal)	150	13,500	in ² /lb	
Yield (nominal)	50	37,500	in ² /lb	
Yield (nominal)	75	24,900	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	9,400
3	9 1/2 ± 1/4	75	6,300
3	9 1/2 ± 1/4	100	5,200
3	9 1/2 ± 1/4	150	3,400
3	13 ± 1/4	50	19,000
3	13 ± 1/4	75	12,600
3	13 ± 1/4	100	10,400
3	13 ± 1/4	150	6,900
6	11 ± 1/4	50	9,500
6	11 ± 1/4	75	6,300
6	11 ± 1/4	100	5,200
6	11 ± 1/4	150	3,400
6	14 ± 1/4	50	18,600
6	14 ± 1/4	75	12,400
6	14 ± 1/4	100	10,200

6	14 ± 1/4	150	6,700
6	18 ± 1/4	50	34,100
6	18 ± 1/4	75	22,700
6	18 ± 1/4	100	18,800
6	18 ± 1/4	150	12,300

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.

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