



DuPont Teijin Films™

MYLAR® OL13

Product Description

Mylar® OL13 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® OL13 is commercially available in nominal 50, 100 and 150 gauges.

Mylar® OL13 is dual ovenable film which provides very strong, aggressive seals to polar substrates such as amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, and polyvinylchloride (PVC). Mylar® OL13 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® OL13 is similar to OL12 but has a thicker seal layer than Mylar® OL12 to give enhanced seal strength. In general, Mylar® OL13 can produce non-peeling, near "lock-up" type seals and is recommended for hot fill applications where non-peeling seals are desired. It can also be used in some "post-pasteurized" (steam sterilization) applications where the pressure balance in the package can be properly controlled (via vacuum or overpressure). Mylar® OL13 lidding films have excellent grease and oil resistance.

Mylar® OL13 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® OL13T): Selected gauges of Mylar® OL13 are available with corona treatment (opposite side from the heat seal layer) to enhance printing and laminating. This film type is marketed by DuPont Teijin Films as Mylar® OL13T. 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® OL13T are the same as shown for Mylar® OL13.

Anti-fog (Mylar® OL13AF, OL13AT): Selected gauges of Mylar® OL13 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 OL13AF. Mylar® OL13AF is also available with corona treatment on the opposite side from the heat seal layer.

Approvals

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

Disposal

Disposal of Mylar® OL13 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	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
WVTR	100	1.3	g/100	ASTM F1249 38°C, 90% RH

			in ² /day	
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
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
Tensile Strength MD (break)	50 - 100	25	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 100	35	kpsi	ASTM D882A
Unit Weight	100	26.0	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	150	37.0	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	50	16.5	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	100	16,600	in ² /lb	
Yield (nominal)	150	11,700	in ² /lb	
Yield (nominal)	50	26,200	in ² /lb	

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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