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MYLAR® RL31

Product Description

Mylar® RL31 is a biaxially oriented polyester (OPET) with an ethylene vinyl acetate (EVA) heat seal layer. It is used as a heat sealable lidding film in packaging frozen and refrigerated foods. Mylar® RL31 is commercially available in nominal 50 and 100 gauges.

Mylar® RL31 is designed to seal to a broad range of container substrates including amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, polyvinylchloride (PVC), polyethylene (HDPE), polypropylene (PP), and polystyrene (HIPS).



Heat seals with Mylar® RL31 are stronger than with Mylar® OL, but are still generally strippable from most container substrates. Shredding (film tear or break) can be minimized or eliminated by using higher gauges. Mylar® RL31 has a lower seal initiation temperature than lidding films with an amorphous polyester heat seal layer (e.g., Mylar® OL, OL2). This allows good seals to be made at higher line speeds (or using lower sealing temperatures). Mylar® RL31 is not recommended for applications where "caulking" is required.

Mylar® RL31 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® RL31T): Selected gauges of Mylar® RL31 are available with corona treatment (on the opposite side of film from the heat seal layer) to enhance printing and laminating. This film type is marketed by DuPont Teijin Films as Mylar® RL31T and is commercially available in nominal 50 and 100 gauges. 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® RL31T are the same as shown for Mylar® RL31.

Anti-fog: Mylar® RL31 is not available with anti-fog capability.

Approvals

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

Disposal

Disposal of Mylar® RL31 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 - O ₂ , 24 hr	100	5	cc/100 in ²	ASTM D3985 22°C/50% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	50	9	cc/100 in ²	ASTM D3985 22°C/50% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	75	7	cc/100 in ²	ASTM D3985 22°C/50% RH/1 ATM
WVTR	100	1.3	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 - 100	110	%	ASTM D882A
Elongation at Break TD	50 - 100	80	%	ASTM D882A
Tear (Graves)	100	1.1	lb	ASTM D1004
Tear (Graves)	50	0.7	lb	ASTM D1004
Tear (Graves)	75	0.9	lb	Tear (Graves)
Tensile Strength MD (break)	50 - 100	25	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 100	35	kpsi	ASTM D882A
Unit Weight	100	22.2	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	50	12.7	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	75	18.5	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	100	19,700	in ² /lb	
Yield (nominal)	50	34,900	in ² /lb	
Yield (nominal)	75	23,400	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	8,200
3	9 1/2 ± 1/4	75	5,700
3	9 1/2 ± 1/4	100	4,800
3	13 ± 1/4	50	16,500
3	13 ± 1/4	75	11,500
3	13 ± 1/4	100	9,600
6	11 ± 1/4	50	8,200
6	11 ± 1/4	75	5,700
6	11 ± 1/4	100	4,800
6	14 ± 1/4	50	16,100
6	14 ± 1/4	75	11,200
6	14 ± 1/4	100	9,400
6	18 ± 1/4	50	29,600
6	18 ± 1/4	75	20,600
6	18 ± 1/4	100	17,300

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.

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