



DuPont Teijin Films™

MYLAR® RL33

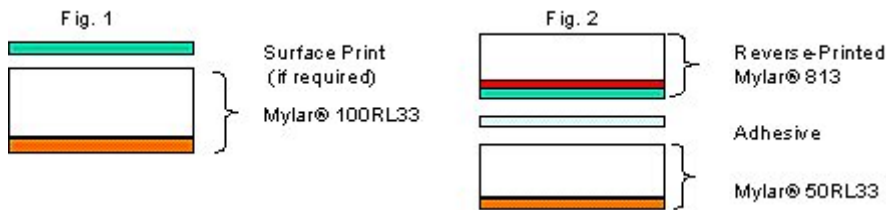
Product Description

Mylar® RL33 is a biaxially oriented polyester (OPET) film 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® RL33 is commercially available in nominal 50 and 100 gauges.

Mylar® RL33 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).



Mylar® RL33 has the same type heat seal layer as Mylar® RL31, but the seal layer is thicker than both Mylar® RL31 and Mylar® RL32. Mylar® RL33 develops stronger seals than Mylar® RL32 to most substrates and tends to produce tearing seals to non-polar substrates under chilled conditions. Mylar® RL33 is recommended when light caulking is needed. Mylar® RL33 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® RL33 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® RL33T): Selected gauges of Mylar® RL33 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® RL33T 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® RL33T are the same as shown for Mylar® RL33.

Anti-fog: Mylar® RL33 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® RL33 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

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
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
PHYSICAL				
Elongation at Break MD	100	110	%	ASTM D882A
Elongation at Break MD	50	110	%	ASTM D882A
Elongation at Break TD	100	80	%	ASTM D882A
Elongation at Break TD	50	80	%	ASTM D882A
Modulus	All	550	kpsi	ASTM D822
Tear (Graves)	100	1.1	lb	ASTM D1004
Tear (Graves)	50	0.7	lb	ASTM D1004
Tensile Strength MD (break)	All	25	kpsi	ASTM D882A
Tensile Strength TD (break)	All	35	kpsi	ASTM D882A
Unit Weight	100	26.4	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	50	16.9	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	100	16,400	in ² /lb	
Yield (nominal)	50	25,500	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	5,700
3	9 1/2 ± 1/4	100	3,800
3	13 ± 1/4	50	11,400
3	13 ± 1/4	100	7,600
6	11 ± 1/4	50	5,700
6	11 ± 1/4	100	3,800
6	14 ± 1/4	50	11,100
6	14 ± 1/4	100	7,500
6	18 ± 1/4	50	20,500
6	18 ± 1/4	100	13,700

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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