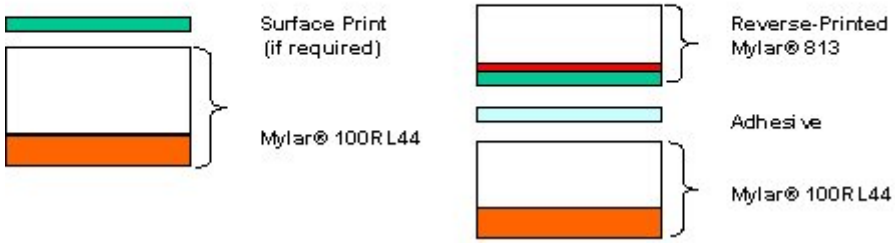
DuPont Teijin Films™

# MYLAR® RL44

## Product Description

Mylar® RL44 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® RL44 is commercially available in nominal 100 gauge.


Mylar® RL44 is designed to produce strong heat seals to polypropylene (PP). Although designed especially to seal to polypropylene, Mylar® RL44 will produce strong seals to a broad range of container substrates including amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, polyvinylchloride (PVC), polyethylene (HDPE), and polystryrene (HIPS).




Mylar® RL44 has the same type heat seal layer as Mylar® RL43, but the seal layer is thicker than Mylar® RL43. Mylar® RL44 produces the highest seal strengths to polypropylene of Mylar® lidding films and tends to produce tearing seals to non-polar substrates under chilled conditions. Mylar® RL44 is recommended when caulking is needed. Mylar® RL44, like other RL types, 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® RL44 can withstand freezing temperatures down to -40°F, and foods can be heated or cooked in contact with this film at temperatures up to 250°F. The oriented polyester base film will begin to distort in the range of 425-450°F.

## Special Features

Corona Treatment (Mylar® RL44T): Mylar® RL44 is 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® RL44T and is commercially available in nominal 100 gauge. 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® RL44T are the same as shown for Mylar® RL44.

Anti-fog: Mylar® RL44 is not currently available with anti-fog capability. However, such a film could be developed for an appropriate application.

## Approvals

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

## Disposal

Disposal of Mylar® RL44 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] |
|---|
| 100 |

| Property | Thickness | Value | Units | Test |
|---|---|---|---|---|
| **BARRIER** | | | | |
| Gas Permeability - O2, 24 hr | 100 | 5 | cc/100 in² | ASTM D3985 22ºC/50% RH/1 ATM |
| WVTR | 100 | 1.3 | g/100 in²/day | ASTM F1249 38ºC, 90% RH |
| | | | | |
| **PHYSICAL** | | | | |
| Elongation at Break MD | 100 | 110 | % | ASTM D882A |
| Elongation at Break TD | 100 | 80 | % | ASTM D882A |
| Modulus | 100 | 550 | kpsi | ASTM D822 |
| Tear (Graves) | 100 | 1.1 | lb | ASTM D1004 |
| Tensile Strength MD (break) | 100 | 25 | kpsi | ASTM D882A |
| Tensile Strength TD (break) | 100 | 35 | kpsi | ASTM D882A |
| Unit Weight | 100 | 26.4 | lb/ream | ASTM E252 (0.5 m²) |
| Yield (nominal) | 100 | 14,800 | in²/lb | |

## Standard Put-ups

| Core I.D. (Inches) | Roll O.D. (Inches) | Thickness (Gauge) | Length (Feet) |
|---|---|---|---|
| 3 | 9 1/2 ± 1/4 | 100 | 3,300 |
| 3 | 13 ± 1/4 | 100 | 6,700 |
| 6 | 11 ± 1/4 | 100 | 3,300 |
| 6 | 14 ± 1/4 | 100 | 6,500 |
| 6 | 18 ± 1/4 | 100 | 12,100 |

## 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.

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 it's 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.