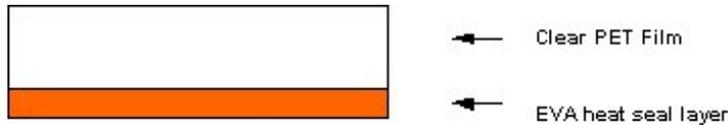


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MYLAR® RL42/RL42AF/RL42AT

Product Description

Mylar® RL42 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® RL42 is commercially available in nominal 50, 75, 100 and 150 gauges.



Mylar® RL42 is designed to produce strong seals to polypropylene (PP). Although designed especially to seal to polypropylene, Mylar® RL42 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 polystyrene (HIPS).

Mylar® RL42 has the same heat seal layer thickness as Mylar® RL32, but produces a stronger seal to polypropylene. Mylar® RL42 can produce tearing seals to polypropylene and other substrates under chilled conditions. Like the other "RL" types with EVA heat seal layer, Mylar® RL42 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® RL42 can withstand freezing temperatures down to -40°F.

Special Features

Corona Treatment (Mylar® RL42T): Selected gauges of Mylar® RL42 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® RL42T. 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® RL42T are the same as shown for Mylar® RL42.

Anti-fog (Mylar® RL42AF, RL42AT): Selected gauges of Mylar® RL42 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 RL42AF and is commercially available in nominal 50 and 100 gauges. Mylar® RL42AF is also available with corona treatment on the opposite side of film from the heat seal layer. This film type is marketed by DuPont Teijin Films as Mylar® RL42AT, and is commercially available in nominal 50 and 100 gauges.

Approvals

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

Disposal

Disposal of Mylar® RL42 does not present special disposal problems. They 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/50% RH/1 ATM |
| Gas Permeability - O ₂ , 24 hr | 150 | 3 | 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 | 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 | 24.5 | lb/ream | ASTM E252 (0.5 m ²) |
| Unit Weight | 150 | 35.5 | lb/ream | ASTM E252 (0.5 m ²) |
| Unit Weight | 50 | 14.8 | lb/ream | ASTM E252 (0.5 m ²) |
| Unit Weight | 75 | 20.8 | lb/ream | ASTM E252 (0.5 m ²) |
| Yield (nominal) | 100 | 17,800 | in ² /lb | |
| Yield (nominal) | 150 | 12,200 | in ² /lb | |
| Yield (nominal) | 50 | 29,500 | in ² /lb | |
| Yield (nominal) | 75 | 20,800 | in ² /lb | |

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 its 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.

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