MYLAR® RL52

Product Description
Mylar® RL52 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 frozen and refrigerated foods. Mylar® RL52 is commercially available in nominal 50 gauge.

Mylar® RL52 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). However, Mylar® RL52 produces weak seals to polypropylene at lower seal temperatures (below 350°F) - especially under chilled conditions, and is not recommended for these applications. (RL "40 Series" is recommended for these applications.)

Mylar® RL52 has the same type heat seal layer as Mylar® RL51, but the thickness of the heat seal layer and the heat seal strengths of Mylar® RL52 are intermediate between Mylar® RL51 and Mylar® RL53. RL52 produces more ductile seals under refrigerated or frozen conditions and seals better to polystyrene containers than either RL32 or RL42. Like RL51, Mylar® RL52 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® RL52 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® RL52T): Selected gauges of Mylar® RL52 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® RL52T and is commercially available in nominal 50, 100, and 150 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® RL52T are the same as shown for Mylar® RL52.

Anti-fog: Mylar® RL52 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® RLS2 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

<table>
<thead>
<tr>
<th>Available Thickness [Gauge]</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Thickness</th>
<th>Value</th>
<th>Units</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BARRIER</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Permeability - O₂, 24 hr</td>
<td>50</td>
<td>9</td>
<td>cc/100 in²</td>
<td>ASTM D3985 22°C/50% RH/1 ATM</td>
</tr>
<tr>
<td>WVTR</td>
<td>50</td>
<td>2.8</td>
<td>g/100 in²/day</td>
<td>E96 Proc. E</td>
</tr>
<tr>
<td><strong>PHYSICAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elongation at Break MD</td>
<td>50</td>
<td>110</td>
<td>%</td>
<td>ASTM D882A</td>
</tr>
</tbody>
</table>
### Elongation at Break TD
- **Type:** All
- **Value:** 50 %
- **Standard:** ASTM D882A

### Modulus
- **Type:** All
- **Value:** 550 kpsi
- **Standard:** ASTM D822

### Tear (Graves)
- **Type:** All
- **Value:** 0.7 lb
- **Standard:** ASTM D1004

### Tensile Strength Drive (break)
- **Type:** All
- **Value:** 25 kpsi
- **Standard:** ASTM D882A

### Tensile Strength TD (break)
- **Type:** All
- **Value:** 35 psi
- **Standard:** ASTM D882A

### Unit Weight
- **Type:** All
- **Value:** 15 lb/ream
- **Standard:** ASTM E252 (0.5 m²)

### Tensile Strength MD (break)
- **Type:** All
- **Value:** 25 kpsi
- **Standard:** ASTM D882A

### Yield (nominal)
- **Type:** All
- **Value:** 28,900 in²/lb
- **Standard:** ASTM E252 (0.5 m²)

### Standard Put-ups

<table>
<thead>
<tr>
<th>Core I.D. (Inches)</th>
<th>Roll O.D. (Inches)</th>
<th>Thickness (Gauge)</th>
<th>Length (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>9 1/2 ± 1/4</td>
<td>50</td>
<td>6,600</td>
</tr>
<tr>
<td>3</td>
<td>13 ± 1/4</td>
<td>50</td>
<td>13,300</td>
</tr>
<tr>
<td>6</td>
<td>11 ± 1/4</td>
<td>50</td>
<td>6,600</td>
</tr>
<tr>
<td>6</td>
<td>14 ± 1/4</td>
<td>50</td>
<td>13,000</td>
</tr>
<tr>
<td>6</td>
<td>18 ± 1/4</td>
<td>50</td>
<td>23,900</td>
</tr>
</tbody>
</table>

### 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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