EcoShield® Super Barrier Paper
Environmentally acceptable replacement for polycoated and waxed papers, RECYCLABLE AND REPULPABLE, patent pending

DESCRIPTION

EcoShield® Super Barrier Paper is a high gloss version of EcoShield® Paper. EcoShield® Super Barrier Paper offers better Moisture Vapor Transmission Rate (MVTR) compared to typical polycoated and waxed papers. Its shiny barrier side will also repel liquid water but is not intended for applications involving constant water contact. This product also shows excellent oil and grease resistance.

EcoShield® Super Barrier Paper is made with a water based barrier coating. One of its key features is that it is fully repulpable and recyclable, contrary to other barrier packaging products such as polycoated or waxed papers; so there is no need for costly processes to separate the paper base from the coating.

TYPICAL APPLICATIONS

EcoShield® Super Barrier Paper can be used in a variety of applications, including wrapping oily and greasy parts, as well as other moisture sensitive components. Additionally, EcoShield® Super Barrier Paper can be used as a liner for wood pallets and inside corrugate boxes, to provide a barrier against moisture or other corrosive elements that can leach out of these materials.

It may be used for product packaging or as a disposable cover to keep work surfaces clean.

FEATURES

• Barrier coated paper
• Very low Moisture Vapor Transmission Rate (MVTR), even better than that of polycoated or waxed paper
• Excellent oil and grease resistance (3M Kit value of 12)
• Fully recyclable (repulpable)
• Non-toxic, environmentally friendly

ITEMS PROTECTED

• Metal parts
• Moisture sensitive items

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>TAPPI</th>
<th>Unit</th>
<th>EcoShield® Super Barrier Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis Weight</td>
<td>T-410</td>
<td>lb/3,000 (g/m²)</td>
<td>45±3 (73±5)</td>
</tr>
<tr>
<td>Water Absorption (Cobb)*</td>
<td>T-441</td>
<td>g/m²</td>
<td>0.22±0.06</td>
</tr>
<tr>
<td>Caliper</td>
<td>T-411</td>
<td>Mil (µm)</td>
<td>4.5±3 (114±12)</td>
</tr>
</tbody>
</table>

* Tested for standard 120 seconds

WATER VAPOR BARRIER PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>EcoShield® Super Barrier Paper</th>
<th>Polyoated Paper</th>
<th>Waxed Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>WTR** (g/hour*m²)</td>
<td>0.32-0.37</td>
<td>0.47-0.71</td>
<td>6.5-6.9</td>
</tr>
</tbody>
</table>

** Tested according to ASTM E-96, 73°F, 50%RH, Example test ranges for: EcoShield® Super Barrier Paper, a comparable polyethylene coated paper (40# 3msf paper, 6# PE coating) and commerical waxed paper.
### STANDARD TEST METHODS

<table>
<thead>
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<th>Description</th>
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<tr>
<td>TAPPI T-410</td>
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<tr>
<td>TAPPI T-441</td>
<td>Cobb Water Absorption</td>
</tr>
<tr>
<td>TAPPI T-452</td>
<td>Brightness of pulp, paper, and paperboard</td>
</tr>
<tr>
<td>ASTM F88-99</td>
<td>Seal strength of flexible barrier materials</td>
</tr>
</tbody>
</table>

### PACKAGING AND STORAGE

EcoShield® Super Barrier Paper is available in 45#/3msf (73 g/m²) paper.

Custom sizes and construction are available upon request including:

- Basis weights from 35#/3msf (57 g/m²) to 42 point liner board (205 g/m²)
- Widths up to 90” (2.29 m)
- 3” or 6” (7.6 or 15.2 cm) cores
- Custom printing
- As sheets or perforated rolls

### LIMITED WARRANTY

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