TRANSPROP™ HSAF

DESCRIPTION:
TRANSPROP™ HSAF is a co-extruded transparent film with two heat seal layers and anti-fog treatment on one side and corona treatment on the other. Humidity does not form large water droplets, therefore keeping the film perfectly clear for better shelf appearance.

CHARACTERISTICS:
- Excellent heat seal strength
- Excellent anti-fogging properties
- Attractive appearance
- Inhibits deterioration of packaged foods

FDA STATUS:
Compliant with the US Food and Drug Administration regulations under 21 CFR 177.1630, Sections (f), (g), and (h) for direct food contact.

TECHNICAL DATA:

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>UNIT OF MEASURE</th>
<th>GAUGE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>Gauge</td>
<td>120</td>
<td>Transcendia Test</td>
</tr>
<tr>
<td>Yield</td>
<td>in²/lb</td>
<td>25,750</td>
<td>Transcendia Test</td>
</tr>
<tr>
<td>Tensile Strength MD</td>
<td>psi</td>
<td>19,913</td>
<td>ASTM D882A</td>
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<tr>
<td>Tensile Strength TD</td>
<td>psi</td>
<td>35,558</td>
<td>ASTM D882A</td>
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<tr>
<td>Elongation at Break MD</td>
<td>%</td>
<td>225</td>
<td>ASTM D882A</td>
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<tr>
<td>Elongation at Break TD</td>
<td>%</td>
<td>60</td>
<td>ASTM D882A</td>
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<tr>
<td>COF</td>
<td>Film/film</td>
<td>0.3</td>
<td>Transcendia Test</td>
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<tr>
<td>Surface Tension</td>
<td>Dyne</td>
<td>38</td>
<td>ASTM D2578</td>
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<tr>
<td>Haze</td>
<td>%</td>
<td>3.3</td>
<td>ASTM D1003</td>
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<tr>
<td>Seal Range</td>
<td>°F</td>
<td>239-284</td>
<td>20 PSI x 1 sec</td>
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<tr>
<td>Gloss</td>
<td></td>
<td>80</td>
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<tr>
<td>Water Vapor Transmission</td>
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<td>ASTM E96</td>
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<td>Oxygen Transmission Rate</td>
<td>cc/100in²/24hrs</td>
<td>95</td>
<td>ASTM D3985</td>
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<td>Shrinkage MD</td>
<td>%</td>
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<td>ASTM D1204</td>
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<tr>
<td>Shrinkage TD</td>
<td>%</td>
<td>1.5</td>
<td>ASTM D1204</td>
</tr>
</tbody>
</table>

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