B-TNL
Non Heat Sealable BOPP Film For Wrap Around Label

B-TNL is a superb gloss non heat sealable film with one side corona treatment for label applications.

FILM STRUCTURE

THE BIG DIFFERENTIATORS

- Superb Gloss
  - Imparting subtle richness to branding.
- Good Printability
  - Excellent half-tone dot transfer.
- Better Optics
  - Finer print images.
- Good Stiffness
  - Better performance on high speed.
- Good Antistatic
  - Good machinability.

KEY FEATURES:
- Excellent gloss & transparency
- Good printability
- Controlled slip & Antistatic
- Good dimensional stability

APPLICATIONS:
- Wrap around label
**TECHNICAL DATA SHEET**

### PROPERTIES

<table>
<thead>
<tr>
<th>Test Method (ASTM)</th>
<th>Unit</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THICKNESS</strong></td>
<td>Internal</td>
<td>15 18 20 25 30 40 48 50</td>
</tr>
<tr>
<td><strong>FILM DENSITY</strong></td>
<td>D-1505</td>
<td>gm/cc</td>
</tr>
<tr>
<td><strong>GRAMMAGE</strong></td>
<td>Internal</td>
<td>13.7 16.4 18.2 22.7 27.3 36.4 43.7 45.5</td>
</tr>
<tr>
<td><strong>YIELD</strong></td>
<td>Internal</td>
<td>73.1 61.1 54.9 44.0 36.6 27.5 22.9 22</td>
</tr>
<tr>
<td><strong>TREATMENT LEVEL</strong></td>
<td>D-2578</td>
<td>dyne/cm</td>
</tr>
<tr>
<td><strong>COEFF OF FRICTION</strong></td>
<td>D-1894</td>
<td>Dynamic</td>
</tr>
<tr>
<td><strong>HAZE</strong></td>
<td>D-1003</td>
<td>%</td>
</tr>
<tr>
<td><strong>GLOSS (at 45°)</strong></td>
<td>D-2457</td>
<td>Unit</td>
</tr>
<tr>
<td><strong>TENSILE STRENGTH AT BREAK</strong></td>
<td>D-882</td>
<td>kg/cm²</td>
</tr>
<tr>
<td><strong>ELONGATION AT BREAK</strong></td>
<td>D-882</td>
<td>%</td>
</tr>
<tr>
<td><strong>LINEAR SHRINKAGE (max) (5 Minutes at 130°C)</strong></td>
<td>D-1204</td>
<td>%</td>
</tr>
<tr>
<td><strong>WATER VAPOUR TRANSMISSION RATE (38°C &amp; 90% RH)</strong></td>
<td>F-1249</td>
<td>gm/m²/day</td>
</tr>
<tr>
<td><strong>OXYGEN TRANSMISSION RATE (23°C &amp; 0% RH)</strong></td>
<td>D-3985</td>
<td>cc/m²/day</td>
</tr>
</tbody>
</table>

- **MD** = MACHINE DIRECTION
- **TD** = TRANSVERSE DIRECTION

---

**STORAGE & HANDLING**

FLEXOPP™ does not require special storage conditions. It is recommended to storage below 30°C in order to avoid any deterioration of the film surface properties. It is advisable to use the material on FIFO basis. The film should be kept at operating environment for 24 hours before processing. FLEXOPP™ is best suitable for use within 6 months from date of dispatch.

**FOOD CONTACT**

FLEXOPP™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

**DISCLAIMER**

It is the responsibility of our customers to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Flex provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

---

**Ref no QAD UFLI S/20 - B26/1**

**FOOD CONTACT**

FLEXOPP™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

**DISCLAIMER**

It is the responsibility of our customers to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Flex provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

---

**TDS issued on 01-04-2020. All previous version of this grade are invalid.**