COSMOCPP TRANSPARENT
HIGH SPEED PACKAGING

Structure
- Corona treated layer
- Transparent PP Core Layer
- Sealable untreated layer

Description
It is a co-extruded, one side heat sealable and one side treated cast polypropylene film. This film is specifically designed to be the sealant layer for retort pouches.

Features
- High heat seal strength
- Good Hot Tack
- Good ink adhesion

Applications
- Use for retort lamination
- Stand-up pouch applications
- Gusseted and non-gusseted pouches

Typical Retort Structure
- PET/Ink/Adh/Foil/Adh/Nylon/Adh/40 HST-1 (RT) CPP
- PET/Ink/Adh/Foil/Adh/40 HST-1 (RT) CPP
- PET/Ink/Adh/Nylon/Adh/40 HST-1 (RT) CPP

Provisional Data Sheet

<table>
<thead>
<tr>
<th>Properties</th>
<th>Ref.</th>
<th>Units</th>
<th>ASTM # / Test Method</th>
<th>70 HST-1 (RT) CPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Thickness</td>
<td></td>
<td>micron</td>
<td>D-374-C</td>
<td>70</td>
</tr>
<tr>
<td>Thickness Variation</td>
<td></td>
<td>gauge</td>
<td></td>
<td>280</td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td>g/cc</td>
<td></td>
<td>0.910</td>
</tr>
<tr>
<td>Average Subsistence</td>
<td></td>
<td>g/m²</td>
<td>D-2578</td>
<td>63.7</td>
</tr>
<tr>
<td>Surface tension (min.)</td>
<td></td>
<td>dynes/cm</td>
<td>D-1894</td>
<td>38</td>
</tr>
<tr>
<td>Kinetic COF</td>
<td></td>
<td>UT/UT</td>
<td></td>
<td>0.85 - 0.93</td>
</tr>
<tr>
<td>Yield</td>
<td></td>
<td>m²/Kg</td>
<td>D-4321</td>
<td>15.69</td>
</tr>
</tbody>
</table>

Optical Data
- Haze % D-1003: 3.4 - 4.3

Mechanical Data
- Tensile Strength
  - MD: kg/cm², D-882: 240 - 260
  - TD: kg/cm², D-882: 180 - 210
- Elongation
  - MD: %, D-882: > 575
  - TD: %, D-882: > 575

Thermal Data
- Seal Initiation Temp. °C: CTM 135
- Heat Sealing Strength (min.) g/25mm: CTM 2000-2700

Barrier Data
- MVTR (38°C, 90% RH) g/m²/day: F-1249 2

Cosmo Films Limited
B-14/8-9, MIDC Industrial Area, Waluj, Aurangabad - 431 136, India, T: +91 240 6660000,
1008, DLF Tower -A, Jasola District Centre, New Delhi - 110 025, India, T: + 91-11-49 49 49 49,
E-mail: sales.enquiry@cosmofilms.com

Disclaimer: The information provided above is based on COSMO FILMS LTD's conclusive tests, which are indicative only and provided as guidelines. They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications.