Adstif HA3105
Polypropylene, Homopolymer

Product Description
Adstif HA3105 is a high crystallinity polypropylene homopolymer. It does not contain any slip, anti-blocking or Calcium Stearate additives.
Adstif HA3105 is designed for the production of biaxially oriented polypropylene films (BOPP). It is used by customers for a broad range of applications including metallizable films and both plain and coextruded structures.
Adstif HA3105 offers good optical properties, increased film rigidity and barrier properties.

For regulatory information please refer to Adstif HA3105 Product Stewardship Bulletin (PSB).

Product Characteristics

<table>
<thead>
<tr>
<th>Status</th>
<th>Commercial: Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Method used</td>
<td>ISO    ASTM</td>
</tr>
<tr>
<td>Availability</td>
<td>Europe, Africa-Middle East</td>
</tr>
<tr>
<td>Processing Methods</td>
<td>BOPP</td>
</tr>
<tr>
<td>Features</td>
<td>Homopolymer</td>
</tr>
<tr>
<td>Typical Customer Applications</td>
<td>Barrier Film, BOPP, Film, Food Packaging Film</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Method</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haze (20 µ)</td>
<td>ASTM D 1003</td>
<td>0.60</td>
<td>%</td>
</tr>
</tbody>
</table>

Notes
Typical properties; not to be construed as specifications.

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LyondellBasell markets this product through the following entities:
- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit http://www.lyb.com/.

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This product(s) may not be used in:
(i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or

(ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Safety Data Sheet before handling the product.

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