# HDPE, Industrial Packaging

## Large Blow Molding

### Properties

<table>
<thead>
<tr>
<th>Density 23°C</th>
<th>MFR 190°C/2.16 kg</th>
<th>Tensile modulus</th>
<th>Tensile Strength at Yield</th>
<th>Tensile Impact Strength Notched</th>
<th>ESCR (FNCT): 3.5 MPa, 80°C, 2% aequous</th>
<th>ESCR (Basell bottle test)</th>
<th>Delivery Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST METHOD</td>
<td>ISO 1183</td>
<td>ISO 1133</td>
<td>ISO 527</td>
<td>ISO 8256/1A</td>
<td>ISO 16770</td>
<td>Basell</td>
<td></td>
</tr>
<tr>
<td>UNITS</td>
<td>g/cm³</td>
<td>g/10 min</td>
<td>MPa</td>
<td>MPa</td>
<td>%</td>
<td>kJ/m²</td>
<td>h</td>
</tr>
</tbody>
</table>

### Specific characteristics and typical customer applications

- **Outstanding ESCR; high impact resistance; good chemical resistance; Jerry Cans (also coex); packaging of dangerous goods**
- **UV stabilized; outstanding ESCR; high impact resistance; good chemical resistance; Jerry Cans; IBC; HOT; packaging of dangerous goods**
- **Outstanding ESCR; high impact resistance; good chemical resistance; additive free; Jerry Cans, Drums (high purity applications, coex)**
- **Outstanding ESCR; high impact and good chemical resistance; injection molded IBC outlet valves and accessories; packaging of dangerous goods**
- **High ESCR; high impact resistance; high rigidity; high chemical resistance; Jerry Cans; Drums; packaging of dangerous goods**
- **High rigidity; high ESCR; good flowability; very good impact resistance; Jerry Cans; packaging of dangerous goods**
- **Excellent combination of stiffness and ESCR; very good impact resistance; Jerry Cans and Drums; packaging of dangerous goods**
- **Good ESCR; high impact resistance; high rigidity; high chemical resistance; Powder**
- **Outstanding impact resistance; good ESCR; high rigidity; L-Ring Drums; packaging of dangerous goods**
- **Excellent combination of stiffness and ESCR; high rigidity; good impact resistance; Jerry Cans; packaging of dangerous goods**
- **Excellent combination of stiffness and ESCR; high rigidity; dedicated grade for healthcare applications; Jerry Cans**
- **Outstanding impact resistance; good ESCR; high rigidity; L-Ring Drums; packaging of dangerous goods**
- **Conductive grade (carbon black), outstanding ESCR, good chemical resistance, limited impact resistance; Jerry Can, Drum (coex); IBC (coex)**

---

You can find out more about us by visiting our website at: [www.lyb.com](http://www.lyb.com)

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN THIS AGREEMENT. This product(s) may not be used in: (1) 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 (i) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class I, Health Canada Class I or Class II, and/or European Union Class I 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. (ii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class I, Health Canada Class I or Class II, and/or European Union Class I 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 I, Health Canada Class I, and/or European Union Class I 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 Material Safety Data Sheet before handling the product.

*HOT = Heating Oil Tank, ESCR = Environmental Stress Crack Resistance, FNCT = Full Notch Creep Test, IBC = Intermediate Bulk Container.

Lupolen, Hostalen, Histif and Purell are trademarks owned or used by LyondellBasell group companies.

Lupolen, Hostalen, and Purell are registered in the U.S. Patent and Trademark Office.