Purell PE 1810E

Low Density Polyethylene

Product Description

*Purell* PE 1810E is a low density polyethylene with good flexibility and delivered in pellet form. The grade is used by our customers for small blow mouldings and injection moulding in healthcare market as well as for tube applications.

Regulatory Status

For regulatory compliance information, see *Purell* PE 1810E [Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)].

Status

- **Commercial:** Active

Availability

- Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America

Application

- Blow-Fill-Seal Applications; Bottles and Vials; Collapsible Tubes (Healthcare); Healthcare Applications; Medical Devices; Medical Film

Market

- Flexible Packaging; Healthcare; Rigid Packaging

Processing Method

- Blow, Fill, & Seal; Blown Film; Extrusion Blow Molding; Injection Blow Molding; Injection Molding

Attribute

- Ethylene Oxide Sterilisation; Good Flexibility

Typical Properties

<table>
<thead>
<tr>
<th>Physical</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate, (190 °C/2.16 kg)</td>
<td>0.4</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.920</td>
<td>g/cm³</td>
<td>ASTM D1505</td>
</tr>
</tbody>
</table>

| Mechanical                                   |               |           |               |
| Tensile Modulus, (1% Secant)                 | 28200         | psi       | ASTM D638     |
| Tensile Stress at Yield                      | 1390          | psi       | ASTM D638     |

| Hardness                                     |               |           |               |
| Shore Hardness, (Shore D)                    | 55            |           | ASTM D2240    |

| Thermal                                      |               |           |               |
| Vicat Softening Temperature, (A/50 N)        | 196           | °F        | ASTM D1525    |
| DSC Melting Point                            | 226           | °F        | ASTM D3418    |
Notes
These are typical property values not to be construed as specification limits.

Processing Techniques
Recommended processing temperatures: 170 °C to 220 °C.
Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information
For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer
Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks
The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.