**Technical Data Sheet**

**Purell RP373R**

Polypropylene, Random Copolymer

### Product Description

*Purell* RP373R is a polypropylene random copolymer for usage in injection molding applications. *Purell* RP373R contains a slip agent and exhibits good transparency. *Purell* RP373R is designed for empty disposable two-part syringes. All potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical and Business contacts first. To discuss a medical/pharmaceutical application please contact your local LyondellBasell reference or your local Distributor.

### Regulatory Status

For regulatory compliance information, see *Purell* RP373R [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

Healthcare Applications; Syringes

### Market

Healthcare

### Processing Method

Injection Molding

### Attribute

Autoclavable; Ethylene Oxide Sterilisation; Good Optical Properties; Medium Flow; Medium Slip; Random Copolymer

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>25</td>
<td>g/10 min</td>
<td>ISO 1133-1</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.90</td>
<td>g/cm³</td>
<td>ISO 1183-1</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>1000</td>
<td>MPa</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td>Tensile Stress at Yield</td>
<td>27</td>
<td>MPa</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td>Tensile Strain at Break</td>
<td>&gt;50</td>
<td>%</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td>Tensile Strain at Yield</td>
<td>15</td>
<td>%</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td><strong>Impact</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charpy Impact Strength - Notched</td>
<td>6.0</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
<tr>
<td>(23 °C, Type 1, Edgewise, Notch A)</td>
<td>2.5</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
<tr>
<td>(0 °C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hardness</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ball Indentation Hardness, (H 358/30)</td>
<td>45</td>
<td>MPa</td>
<td>ISO 2039-1</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicat Softening Temperature, (A50)</td>
<td>130</td>
<td>°C</td>
<td>ISO 306</td>
</tr>
<tr>
<td>Heat Deflection Temperature B, (0.45 MPa, Unannealed)</td>
<td>72</td>
<td>°C</td>
<td>ISO 758-1, -2</td>
</tr>
<tr>
<td><strong>Optical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haze, (1 mm - injection molded disc)</td>
<td>9</td>
<td>%</td>
<td>ASTM D1003</td>
</tr>
</tbody>
</table>
Notes
These are typical property values not to be construed as specification limits.

Further Information
Health and Safety:
The resin is manufactured to the highest standards, but special requirements apply to certain applications such
as food end-use contact and direct medical use. For specific information on regulatory compliance contact your
local representative.

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are
suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The
products of degradation may have an unpleasant odor. In higher concentrations they may cause irritation of the
mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the
control of emissions and pollution prevention should be observed.

The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from
contact with direct flames and/or ignition sources. While burning, the resin contributes high heat and may
generate a dense black smoke.

Recycled resins may have previously been used as packaging for, or may have otherwise been in contact with,
hazardous goods. Converters are responsible for taking all necessary precautions to ensure that recycled resins
are safe for continued use.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

Conveying:
Conveying equipment should be designed to prevent production and accumulation of fines and dust particles
that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard.
Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks.

Storage:
The resin is packed in 25 kg bags, octabins or bulk containers protecting it from contamination. If it is stored
under certain conditions, i.e. if there are large fluctuations in ambient temperature and the atmospheric humidity
is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the
resin before use. Unfavorable storage conditions may also intensify the resin’s slight characteristic odor.

Resin should be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during
storage. Higher storage temperatures may reduce the storage time.

The information submitted is based on our current knowledge and experience. In view of the many factors that
may affect processing and application, these data do not relieve processors of the responsibility of carrying out
their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of
suitability for a specific purpose. This information does not remove the obligation of the customer to inspect the
material on arrival and notify us of any faults immediately. It is the responsibility of those to whom we supply our
products to ensure that any proprietary rights and existing laws and legislation are observed.

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

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