

## Technical Data Sheet

### Purell HP570P



Polypropylene, Homopolymer

#### Product Description

Purell HP570P is a polypropylene homopolymer for use in injection molding applications

Purell HP570P exhibits a good flow properties combined with a high stiffness.

Purell HP570P is extensively applied in medical device components, labware and closures. Additionally it is used in general injection molding thin-walled warpage-critical applications.

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.

This grade is supported for use in drinking water applications.

|                          |   |
|--------------------------|---|
| <b>Application</b>       | Diagnostic Applications; Healthcare Applications; Labware; Syringes                                 |
| <b>Market</b>            | Healthcare  |
| <b>Processing Method</b> | Injection Molding   |
| <b>Attribute</b>         | Autoclavable; Ethylene Oxide Sterilisation; Homopolymer; Low Warpage; Medium Flow; Medium Stiffness |

| Typical Properties   | Nominal Value | Units             | Test Method   |
|--|---------------|-------------------|---------------|
| <b>Physical</b>  |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                                     | 16            | g/10 min          | ISO 1133-1    |
| Density, (23 °C)   | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>  |               |                   |               |
| Tensile Modulus  | 1400          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield  | 33            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break  | >50           | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield  | 11            | %                 | ISO 527-1, -2 |
| <b>Impact</b>  |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 3.0           | kJ/m <sup>2</sup> | ISO 179       |
| <b>Hardness</b>  |               |                   |               |
| Ball Indentation Hardness, (H 358/30)                                | 74            | MPa               | ISO 2039-1    |
| <b>Thermal</b>   |               |                   |               |
| Vicat Softening Temperature, (A50)                                   | 154           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed)                | 85            | °C                | ISO 75B-1, -2 |