

## 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		

<b>Typical Properties</b>	<b>Nominal</b>			<b>Test Method</b>
	<b>Value</b>	<b>Units</b>		
<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