

## Technical Data Sheet

### Pure//HP373P

Polypropylene, Homopolymer

#### Product Description

Pure//HP373P is a polypropylene homopolymer with a gamma - ray stabilizing additivation for use in injection molding applications.

Pure//HP373P exhibits a high fluidity and very good transparency.

Pure//HP373P is primarily designed for empty disposable three - part syringes which are not to be supplied in the same package as the medication itself and for other medical 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.

<b>Application</b>	Healthcare Applications; Syringes		
<b>Market</b>	Healthcare		
<b>Processing Method</b>	Injection Molding		
<b>Attribute</b>	Autoclavable; E-Beam Sterilizable; Ethylene Oxide Sterilisation; Medium Flow; Medium Transparency; Radiation Sterilizable		

Typical Properties	Nominal		Test Method
	Value	Units	
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	18	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	31	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	15	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	6	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	60	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	150	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2
<b>Optical</b>			
Haze, (1 mm - injection molded disc)	15	%	ASTM D1003