

Technical Data

Product Description

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact Purell HP371P is a polypropylene homopolymer with a gamma - ray stabilizing addition. It exhibits a high fluidity and superior transparency. Purell HP371P 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 where no EP is needed. For regulatory information please refer to Purell HP371P Product Stewardship Bulletin (PSB)

General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	<ul style="list-style-type: none"> <li>• <a href="#">Processing - Extrusion (English)</a></li> <li>• <a href="#">Processing - Injection Molding (English)</a></li> <li>• <a href="#">Processing - Mold Shrink (English)</a></li> <li>• <a href="#">Technical Datasheet (English)</a></li> </ul>		
Search for UL Yellow Card	• <a href="#">LyondellBasell Industries</a>		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Gamma Stabilizer		
Features	<ul style="list-style-type: none"> <li>• Autoclavable</li> <li>• E-beam Sterilizable</li> <li>• Ethylene Oxide Sterilizable</li> </ul>	<ul style="list-style-type: none"> <li>• Food Contact Acceptable</li> <li>• Homopolymer</li> <li>• Medium Clarity</li> </ul>	<ul style="list-style-type: none"> <li>• Medium Flow</li> <li>• Radiation (Gamma) Resistant</li> <li>• Radiation Sterilizable</li> </ul>
Uses	• Hypodermic Syringe Parts	• Medical/Healthcare Applications	
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.900 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	24.0 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1250 MPa	ISO 527-2
Tensile Stress (Yield)	31.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	15 %	
Break	> 50 %	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	170 kJ/m <sup>2</sup>	ISO 179

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	150 °C	ISO 306/A50

Optical	Nominal Value Unit	Test Method
Haze (1000 µm)	15 %	ASTM D1003

Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

