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.

Application	Diagnostic Applications; Healthcare Applications; Labware; Syringes
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; Ethylene Oxide Sterilisation; Homopolymer; Low Warpage; Medium Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	16	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
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
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	74	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	85	°C	ISO 75B-1, -2