

Technical Data Sheet

Purell HP570U



Polypropylene, Homopolymer

Product Description

Purell HP570U is a polypropylene homopolymer for usage in injection molding applications. Purell HP570U exhibits a high fluidity combined with a high stiffness.

Purell HP570U is extensively applied in 3-part syringes, 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.

Application	Diagnostic Applications; Healthcare Applications; Labware
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; Ethylene Oxide Sterilisation; High Flow; Homopolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	75	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1350	MPa	ISO 527-1, -2
Tensile Stress at Yield	32	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	2	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	62	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	152	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2