

Purell HP570U

Polypropylene Homopolymer

LyondellBasell Industries

Message:

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 HP570U is a homopolymer suitable for injection moulding applications It exhibits a high fluidity combined with a high stiffness.

Purell HP570U is extensively applied in 3-part syringes, closures and general injection moulding for thin-walled, warpage-critical applications.

For regulatory information please refer to Purell HP570U Product Stewardship Bulletin (PSB)

General Information			
Features	Ethylene Oxide Sterilizable		
	Food Contact Acceptable		
	High Flow		
	High Stiffness		
	Homopolymer		
	Low Warpage		
Uses	Closures		
	General Purpose		
	Hypodermic Syringe Parts		
	Labware		
	Medical/Healthcare Applications		
	Thin-walled Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	75	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	80.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	7.0	%	
Break, 23°C	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648, ISO 75-2/B
Vicat Softening Temperature			
--	154	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50

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