

Purell HM671T

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 HM671T is a high fluidity metallocene-catalysed polypropylene. It is nucleated and has a gamma - ray stabilizing additivition. Purell HM671T is a medical grade designed for injection moulding applications in medical after approval is given by Basell. Purell HM671T exhibits a very high stiffness combined with an excellent transparency and out-standing organoleptic properties. Its very narrow molecular weight distribution makes it particularly suitable for distortion-free mouldings. Purell HM671T is applied in high transparency and rigid pharmaceutical and diagnostic applications such as well and microtitre plates, measuring cups and labware.

General Information			
Additive	Nucleating Agent		
Features	Autoclavable		
	E-beam Sterilizable		
	Ethylene Oxide Sterilizable		
	Good Organoleptic Properties		
	High Clarity		
	High Flow		
	High Stiffness		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Nucleated		
Radiation Sterilizable			
Uses	Labware		
	Medical/Healthcare Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	60	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	80.0	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	73.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	33.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2

Yield, 23°C	9.0	%	
Break, 23°C	> 50	%	
Flexural Modulus (23°C)	1550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-20°C	1.0	kJ/m ²	
0°C	2.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648, ISO 75-2/B
Vicat Softening Temperature			
--	135	°C	ISO 306/A50
--	87.0	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Haze (1000 µm)	10	%	ASTM D1003

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