

## Purell HM671T

### Polypropylene, Homopolymer

#### 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* 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.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe
<b>Processing Methods</b>	Injection Molding
<b>Features</b>	Autoclavable, Ethylene Oxide Sterilisation, Homopolymer, E-Beam Sterilizable, Radiation Sterilizable
<b>Typical Customer Applications</b>	Diagnostic applications, Healthcare Applications, Labware, Medical Devices, Syringes

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density (23°C)	ISO 1183	0.90	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	60	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	80	g/10 min
<b>Mechanical</b>			
Tensile Modulus (23 °C)	ISO 527-1, -2	1700	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	33	MPa
Tensile Strain at Break (23 °C)	ISO 527-1, -2	>50	%
Tensile Strain at Yield (23 °C)	ISO 527-1, -2	9	%
Flexural modulus (23 °C)	ISO 178	1550	MPa
<b>Impact</b>			
Notched izod impact strength	ISO 180		
(+23 °C)		3	kJ/m <sup>2</sup>
(0 °C)		2	kJ/m <sup>2</sup>
(-20 °C)		1	kJ/m <sup>2</sup>
<b>Hardness</b>			
Ball indentation hardness ((H358/30))	ISO 2039-1	73	MPa
<b>Thermal</b>			
Vicat softening temperature A/50	ISO 306	135	°C
Vicat softening temperature B/50	ISO 306	87	°C
Heat deflection temperature B	ISO 75/ASTM D 648	94	°C
<b>Optical</b>			
Haze (1 mm)	ASTM D 1003	10	%

#### Notes

Typical properties; not to be construed as specifications.

