

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

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

Typical Properties	Method	Value	Unit
Physical			
Density (23°C)	ISO 1183	0.90	g/cm ³
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
Mechanical			
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
Impact			
Notched izod impact strength	ISO 180		
(+23 °C)		3	kJ/m ²
(0 °C)		2	kJ/m ²
(-20 °C)		1	kJ/m ²
Hardness			
Ball indentation hardness ((H358/30))	ISO 2039-1	73	MPa
Thermal			
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
Optical			
Haze (1 mm)	ASTM D 1003	10	%

Notes

Typical properties; not to be construed as specifications.

