Technical Data Sheet

Purell HP671T

Polypropylene, Homopolymer

Product Description

Purell HP671T is a nucleated polypropylene homopolymer with a gamma - ray stabilizing additivation for usage in injection molding applications.
Purell HP671T exhibits very high stiffness combined with an excellent transparency.
Purell HP671T is typically used in rigid, high transparency pharmaceutical and diagnostic 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.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Diagnostic Applications; Healthcare Applications; Labware; Medical Devices; Syringes
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; E-Beam Sterilizable; Ethylene Oxide Sterilisation; High Stiffness; Homopolymer; Medium Transparency; Radiation Sterilizable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	55	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1900	MPa	ISO 527-1, -2
Tensile Stress at Yield	39	MPa	ISO 527-1, -2
Tensile Strain at Break	16	%	ISO 527-1, -2
Tensile Strain at Yield	7.5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	2.6	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	72	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	155	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	105	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	18	%	ASTM D1003
Gloss, (45°)	125		ASTM D2457