Technical Data Sheet

Purell HP371P

Polypropylene, Homopolymer

Product Description

Purell HP371P is a polypropylene homopolymer with a gamma – ray stabilizing additivation for use in injection molding applications.
Purell HP371P exhibits a high fluidity and very good transparency.
Purell HP371P is primarily designed for empty disposable three – part syringes which are not to be supplied in the same package as the medication itself and for other medical 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	Healthcare Applications; Syringes
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; E-Beam Sterilizable; Ethylene Oxide Sterilisation; Medium Flow; Medium Transparency; Radiation Sterilizable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	18	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	31	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	15	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	6	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	60	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	150	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	15	%	ASTM D1003

Notes

These are typical property values not to be construed as specification limits.