Technical Data Sheet

Purell EP370S

Polypropylene, Impact Copolymer

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 and Business contacts first. To discuss a medical/pharmaceutical application please contact your local Distributor or your local Lyondellbasell contact.
Purell EP370S is a nucleated polypropylene impact copolymer suitable for use in injection molding applications.
Purell EP370S is characterized by a good processability combined with a good stiffness-impact balance and good mechanical properties.
Purell EP370S is typically used to produce medical devices, oral care, labware and other healthcare applications.

Application	Healthcare Applications; Medical Devices
Market	Healthcare
Processing Method	Injection Molding
Attribute	Ethylene Oxide Sterilisation; Impact Copolymer; Low Temperature Impact Resistance; Medium Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	42	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	24	MPa	ISO 527-1, -2
Tensile Strain at Break	> 50	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	4.5	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	4	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	147	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2

Notes

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