Technical Data Sheet

Purell RP270G

Polypropylene, Random Copolymer

Product Description

Purell RP270G is a medium modified polypropylene random copolymer for use in extrusion applications with a high chemical resistance.
Purell RP270G exhibits good clarity, good impact strength and excellent processability.
Purell RP270G is typically used for extrusion blow molding, film and injection molding in Healthcare 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.

Application	Blow-Fill-Seal Applications; Bottles and Vials; Healthcare Applications; Infusion Bags; Medical Film; Secondary Packaging
Market	Healthcare
Processing Method	Blow, Fill, & Seal; Blown Film; Extrusion Blow Molding; Injection Blow Molding; Injection Molding
Attribute	Autoclavable; Ethylene Oxide Sterilisation; Medium Flow; Medium Impact Resistance; Medium Transparency; Random Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	1.8	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1000	MPa	ISO 527-1, -2
Tensile Stress at Yield	25	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	14	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	20	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	4	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	45	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	136	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	72	°C	ISO 75B-1, -2
Optical			
Gloss, (60°)	110		ASTM D2457