

Technical Data Sheet

Purell RP375R



Polypropylene, Random Copolymer

Product Description

Purell RP375R is a polypropylene random copolymer for use in injection molding applications.

Purell RP375R exhibits excellent transparency and good physical-mechanical balance of properties.

Purell RP375R has a tailor made additivition package to enhance its resistance to irradiation, making it suitable for items to be sterilized via gamma-rays.

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	Healthcare Applications; Medical Devices; Syringes
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; E-Beam Sterilizable; Ethylene Oxide Sterilisation; Good Optical Properties; Medium Flow; Radiation Sterilizable; Random Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	25	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	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)	6.0	kJ/m ²	ISO 179
(0 °C)	2.5	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	45	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	134	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	78	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	9	%	ASTM D1003