

Technical Data Sheet

Purell EP274P



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 EP274P is a nucleated polypropylene impact copolymer suitable for use in injection molding applications. Purell EP274P exhibits an excellent balance of stiffness and low - temperature toughness. Purell EP274P is typically used in injection molding applications to produce medical products where high mechanical properties are required.

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)	15	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	950	MPa	ISO 527-1, -2
Tensile Stress at Yield	20	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	13	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	8	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	5	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	45	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	142	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	78	°C	ISO 75B-1, -2