

## Technical Data Sheet

### Purell EP374M



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 EP374M is a nucleated polypropylene impact copolymer suitable for use in injection molding applications. Purell EP374M exhibits an excellent balance of stiffness and low - temperature toughness. Purell EP374M is typically used in injection molding applications to produce medical products where high mechanical properties are required.

<b>Application</b>	Healthcare Applications
<b>Market</b>	Healthcare
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Good Processability; High Impact Resistance; Impact Copolymer; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	7.5	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	1050	MPa	ISO 527-1, -2
Tensile Stress at Yield	21	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	6	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m <sup>2</sup>	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	9	kJ/m <sup>2</sup>	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m <sup>2</sup>	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	46	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (A/50)	144	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2