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.

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	7.5	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
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
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	9	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m²	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness, (H 358/30)	46	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A/50)	144	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2