Technical Data Sheet

Purell EA678P

High Crystallinity Polypropylene

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* EA678P is a nucleated polypropylene impact copolymer suitable for use in injection molding applications. The product exhibits an excellent balance of toughness and high stiffness, combined with a good processability. *Purell* EA678P is typically used in injection molding applications to produce medical devices components where high mechanical properties are required.

Application	Caps & Closures (Healthcare); Diagnostic Applications; Healthcare Applications; Medical Devices
Market	Healthcare
Processing Method	Injection Molding
Attribute	Antistatic; Autoclavable; Ethylene Oxide Sterilisation; Good Chemical Resistance; Good Processability; High Stiffness; Impact Copolymer; Medium Flow; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	18	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1750	MPa	ISO 527-1, -2
Tensile Stress at Yield	32	MPa	ISO 527-1, -2
Tensile Strain at Break	50	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	153	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	100	°C	ISO 75B-1, -2
Optical			
Gloss, (60°)	70	%	ASTM D2457