

General Information
Product Description

LUPOY PC 1621-02 resin is designed for large injection stretch blow molding and extrusion blow molding parts. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Food Contact Acceptable • Good Clarity	• Good Mold Release • High Heat Resistance	• High Impact Resistance • High Viscosity
Uses	• Blow Molding Applications	• Bottles	
Agency Ratings	• EC 1907/2006 (REACH)	• EU Food Contact, Unspecified Rating	• FDA 21 CFR 177.1580
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Processing Method	• Extrusion Blow Molding	• Injection Stretch Blow Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (24 hr, 23°C)	0.15	%	ASTM D570
Water Absorption (Equilibrium, 23°C, 50% RH)	0.32	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ISO 527-2
Tensile Stress (Yield)	63.0	MPa	ISO 527-2
Tensile Stress (Break)	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Tensile Strain (Break)	90	%	ISO 527-2
Flexural Modulus	2410	MPa	ISO 178
Flexural Stress	96.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	45	kJ/m ²	ISO 179
Notched Izod Impact ^{2, 3} (23°C, 3.20 mm)	930	J/m	ISO 180
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (0.45 MPa, Annealed)	142	°C	ISO 75-2/B
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed)	128	°C	ISO 75-2/A
Heat Deflection Temperature ⁴ (1.8 MPa, Annealed)	137	°C	ISO 75-2/A
Vicat Softening Temperature	146	°C	ISO 306/B50
CLTE - Flow (-40 to 82°C)	6.8E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ASTM D542

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Lupoy® 1621-02

LG Chem Ltd. - Polycarbonate

Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Haze	0.700 to 1.50	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.25 mm Notch Depth

³ 0.125 in; 10 mil notch (3.2 mm; 0.25 mm notch)

⁴ 4 mm

⁵ 3.2 mm