

Lupoy® 1621-02

Polycarbonate
LG Chem Ltd.

Message:

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 Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Mold Release		
	High Clarity		
	High Heat Resistance		
	High Viscosity		
Uses	Bottles		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA 21 CFR 177.1580		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion Blow Molding		
	Injection Stretch Blow Molding		
Physical	Nominal Value	Unit	Test Method
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			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C, 50% RH	0.32	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	63.0	MPa	
Break	60.0	MPa	
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	90	%	
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 ¹ (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			
0.45 MPa, Annealed ²	142	°C	ISO 75-2/B
1.8 MPa, Unannealed ³	128	°C	ISO 75-2/A
1.8 MPa, Annealed ⁴	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
Transmittance	89.0	%	ASTM D1003
Haze	0.70 to 1.5	%	ASTM D1003
NOTE			
1.	0.25 mm Notch Depth		
2.	4 mm		
3.	3.2 mm		
4.	4 mm		

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