

Lupoy® 1261-03

Polycarbonate
LG Chem Ltd.

Message:

LUPOY PC 1261-03 resin is designed for extrusion blow molding(EBM) and injection stretch blow molding(ISBM) products. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength. Two base colors available: Ultra blue B0786T & Ice blue W0992T

General Information	
Features	Food Contact Acceptable
	Good Impact Resistance
	High Clarity
	High Heat Resistance
Uses	Blow Molding Applications
	Bottles
	Packaging
	Rigid Packaging
Agency Ratings	Chinese Standard GB13116-94
	EU Food Contact, Unspecified Rating
	FDA 21 CFR 177.1580
RoHS Compliance	RoHS Compliant
Appearance	Blue
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	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	74		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638

Tensile Strength			ASTM D638
Yield	60.0	MPa	
Break	72.0	MPa	
Tensile Elongation			ASTM D638
Yield	6.0	%	
Break	150	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	96.0	MPa	ASTM D790
Taber Abrasion Resistance - Change in Haze ¹	45	%	ASTM D1004
Average Extent of Burning	3	cm	ASTM D635
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	950	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	94.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 4.00 mm	146	°C	
1.8 MPa, Unannealed, 4.00 mm	132	°C	
1.8 MPa, Annealed, 4.00 mm	143	°C	
Vicat Softening Temperature	151	°C	ASTM D1525 ²
Ball Indentation Temperature	> 125	°C	IEC 60598-1
CLTE - Flow (-40 to 82°C)	6.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.0E+17	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.00		ASTM D150
Dissipation Factor (60 Hz)	1.0E-3		ASTM D150
Comparative Tracking Index (2.00 mm)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature ³ (2.00 mm)	850	°C	IEC 60695-2-13
Oxygen Index	26	%	ASTM D2863
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.	1000g, 500 cycles, CS-10F Wheel		
2.	Rate A (50°C/h), Loading 2 (50 N)		
3.	5 sec		

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