

Lupoy® 3010-10

Polycarbonate

LG Chem Ltd.

Message:

LUPOY PC 3010-10 resin is designed for injection molding products. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength.

General Information			
UL YellowCard	E67171-100907368		
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Flow		
	Good Impact Resistance		
	High Clarity		
	High Heat Resistance		
	Ultra High Toughness		
Uses	Appliances		
	Electrical/Electronic Applications		
	Thin-walled Parts		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA 21 CFR 177.1580		
UL File Number	E306922		
Processing Method	Injection 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)	10	g/10 min	ASTM D1238
Spiral Flow	2.20	cm	
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	73		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ASTM D638

Tensile Strength			ASTM D638
Yield, 23°C ¹	62.0	MPa	
Break	60.0	MPa	
Tensile Elongation			ASTM D638
Yield	6.0	%	
Break	100	%	
Flexural Modulus	2400	MPa	ASTM D790
Flexural Strength	96.0	MPa	ASTM D790
Taber Abrasion Resistance - Change in Haze ²	45	%	ASTM D1004
Average Extent of Burning	3	cm	ASTM D635
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C, 3.20 mm)	930	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Instrumented Dart Impact ⁴ (23°C, 3.20 mm, Total Energy)	87.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 4.00 mm	144	°C	
1.8 MPa, Unannealed, 4.00 mm	128	°C	
1.8 MPa, Annealed, 4.00 mm	141	°C	
Vicat Softening Temperature	149	°C	ASTM D1525 ⁵
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
Flame Rating			UL 94
3.00 mm	HB		
0.500 mm	V-2		
2.50 mm	V-2		
Glow Wire Ignition Temperature ⁶ (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.	50 mm/min
2.	1000g, 500 cycles, CS-10F Wheel
3.	0.25 mm Notch Depth
4.	3.38 m/sec
5.	Rate A (50°C/h), Loading 2 (50 N)
6.	5 sec

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