

Lupoy® 3030-30

Polycarbonate

LG Chem Ltd.

Message:

LUPOY PC 3030-30 resin is designed for injection molding products. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength.

Main Characteristics:

UV Stabilizer

Improved chemical resistance

Enhanced flowability while retaining high toughness

Applications:

Appliances

Thin wall parts

Electronic/Electrical parts

General Information			
Additive	UV Stabilizer		
Features	Good Chemical Resistance		
	Good Toughness		
	Good UV Resistance		
Uses	Appliances		
	Electrical/Electronic Applications		
	Film		
UL File Number	E67171		
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)	30	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	%	
Spiral Flow Length ¹	320	mm	
Taber Abrasion Resistance - Change in Haze ²	45	%	ASTM D1004
Average Extent of Burning	3	cm	ASTM D635
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 ³	62.0	MPa	
Ultimate	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
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm)	710	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Instrumented Dart Impact ⁵ (23°C, 3.20 mm, Total Energy)	90.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 4.00 mm	139	°C	
1.8 MPa, Unannealed, 4.00 mm	122	°C	
1.8 MPa, Annealed, 4.00 mm	136	°C	
Vicat Softening Temperature	144	°C	ASTM D1525 ⁶
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
0.500 mm	V-2		
2.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Ignition Temperature ⁷ (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.	Melt temperature at 330°C; Spiral mold 1.5 x 6 mm; 17 mm for 30MFR PC resins
2.	1000g, 500 cycles, CS-10F Wheel
3.	50 mm/min
4.	0.25 mm Notch Depth
5.	3.38 m/sec
6.	Rate A (50°C/h), Loading 2 (50 N)
7.	5 sec

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