

Lupoy® 1300-30

Polycarbonate

LG Chem Ltd.

Message:

LUPOY PC 1300-30 resin is designed for extrusion and injection molding products. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength.

Main Characteristics:

Very low viscosity

No UV absorbers

No mold release agent

Applications:

Small appliances

Compounds

Packaging applications

General Information	
Features	Low Viscosity
Uses	Appliances
	Compounding
	Packaging
UL File Number	E67171
Processing Method	Extrusion
	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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C ¹	60.0	MPa	
Ultimate	61.0	MPa	
Tensile Elongation			ASTM D638
Yield	6.0	%	
Break	150	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ² (23°C, 3.20 mm)	700	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
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 ³
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		
1.60 mm	V-2		
2.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Ignition Temperature ⁴ (2.00 mm)	850	°C	IEC 60695-2-13
Oxygen Index	26	%	ASTM D2863
Average Extent of Burning	3	cm	ASTM D635
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.	0.25 mm Notch Depth		
3.	Rate A (50°C/h), Loading 2 (50 N)		
4.	5 sec		

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