

Lucon® CP2100

Polycarbonate

LG Chem Ltd.

Message:

Description

Electrostatic Dissipation

(1.0E+07 ~ 1.0E+11 ohm)

Application

ATM & HDD parts

Automobile BSD

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Carbon nano filler		
Uses	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	93.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4900	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	137	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	136	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 - 1.0E+11	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	270 - 300	°C	
Middle Temperature	290 - 310	°C	
Front Temperature	300 - 330	°C	
Nozzle Temperature	300 - 320	°C	

Processing (Melt) Temp	300 - 330	°C
Mold Temperature	90 - 120	°C
Back Pressure	0.981 - 3.92	MPa
Screw Speed	40 - 70	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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