

Lucon® CP6059F

Polycarbonate

LG Chem Ltd.

Message:

Description

Electrostatic Dissipation

(1.0E+04 ~ 1.0E+07 ohm)

Halogen Free Flame Retardant

Low Liquid Particle Counts

Application

HDD parts

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23 - 1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	73.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	8.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3330	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	93.0	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 1.0E+7	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+4 - 1.0E+8	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	V-1		UL 94
3.0 mm	V-1		UL 94

Additional Information	Nominal Value	Unit
Electrostatic Decay ⁵		sec
Injection	Nominal Value	Unit
Drying Temperature	75 - 85	°C
Drying Time	3.0 - 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 - 240	°C
Middle Temperature	235 - 255	°C
Front Temperature	250 - 265	°C
Nozzle Temperature	250 - 265	°C
Processing (Melt) Temp	235 - 265	°C
Mold Temperature	50 - 80	°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	
5.	1000V to <100V	

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