

## LG Chemical LUCON CP6067 PC+CNT+CF

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

### Material Notes:

Description: Injection Molding, PC+CNT+CF, Electrostatic Dissipation, High Strength, High Flow & Good Processability  
 Application: Wafer Carrier Box, Conveyor belt bearing block  
 CAS No. 103598-77-2, 7440-44-0 and 7782-42-5  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUCON-CP6067-PCCNTCF.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-CP6067-PCCNTCF.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	60 g/10 min @Load 2.16 kg, Temperature 300 °C	60 g/10 min @Load 4.76 lb, Temperature 572 °F	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	98.1 MPa @Thickness 3.20 mm	14200 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 7.0 % @Thickness 3.20 mm	>= 7.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	147 MPa @Thickness 3.20 mm	21300 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	6.28 GPa @Thickness 3.20 mm	910 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.324 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	0.606 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	135 °C @Thickness 6.40 mm	275 °F @Thickness 0.252 in	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05 - 1.00e+6 ohm	1e+05 - 1.00e+6 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 300 °C	536 - 572 °F	Injection Molding
Middle Barrel Temperature	290 - 310 °C	554 - 590 °F	Injection Molding
Front Barrel Temperature	290 - 310 °C	554 - 590 °F	Injection Molding
Nozzle Temperature	290 - 310 °C	554 - 590 °F	Injection Molding
Melt Temperature	290 - 310 °C	554 - 590 °F	Injection Molding
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection Molding
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Injection Molding
Dry Time	5.00 - 7.00 hour	5.00 - 7.00 hour	Injection Molding
Back Pressure	0.000 - 1.96 MPa	0.000 - 284 psi	Injection Molding
Screw Speed	40 - 60 rpm	40 - 60 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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