

## LG Chemical LUCON CP6080LP PC+CNT+GF

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

### Material Notes:

Description: Injection Molding, PC+CNT+GF, Electrostatic Dissipation, Low Surface Tribocharge  
Application: ATM parts, HDD Bracket  
CAS No. 103598-77-2, 65997-17-3 and 7782-42-5  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUCON-CP6080LP-PCCNTGF.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-CP6080LP-PCCNTGF.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 300 Å°C	21 g/10 min @Load 4.76 lb, Temperature 572 Å°F	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	93.2 MPa @Thickness 3.20 mm	13500 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 6.0 % @Thickness 3.20 mm	>= 6.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	137 MPa @Thickness 3.20 mm	19900 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	4.90 GPa @Thickness 3.20 mm	711 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	0.918 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	136 Å°C @Thickness 6.40 mm	277 Å°F @Thickness 0.252 in	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+7 - 1.00e+11	1.00e+7 - 1.00e+11	IEC 60093

Electrical Properties	Metric	English	Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Rear Barrel Temperature	280 - 300 Â°C	536 - 572 Â°F	Injection Molding
Middle Barrel Temperature	290 - 310 Â°C	554 - 590 Â°F	Injection Molding
Front Barrel Temperature	290 - 310 Â°C	554 - 590 Â°F	Injection Molding
Nozzle Temperature	290 - 310 Â°C	554 - 590 Â°F	Injection Molding
Melt Temperature	290 - 310 Â°C	554 - 590 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°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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