

LG Chemical LUCON CP510F PC/ABS+CNT

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Description Injection Molding Grade, PC/ABS+CNT, Electrostatic Dissipation, High Flow, Good Processability Application: Copy Machine

Paper Guide CAS No. 103598-77-2 and 7440-44-0 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-CP510F-PCABSCNT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	73.5 MPa @Thickness 3.20 mm	10700 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	>= 5.0 % @Thickness 3.20 mm	>= 5.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	127 MPa @Thickness 6.40 mm	18500 psi @Thickness 0.252 in	1mm/min; ASTM D790
Flexural Modulus	12.9 GPa @Thickness 6.40 mm	1880 ksi @Thickness 0.252 in	1mm/min; ASTM D790
Izod Impact, Notched	0.196 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.367 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.70 W/m-K	11.8 BTU-in/hr-ftÂ²-Â°F	Laser flash method
Deflection Temperature at 0.46 MPa (66 psi)	250 Â°C @Thickness 6.40 mm	482 Â°F @Thickness 0.252 in	ASTM D648
UL RTI, Electrical	60.0 Â°C @Thickness 1.60 - 1.70 mm	140 Â°F @Thickness 0.0630 - 0.0669 in	

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical with Impact	@Thickness 1.60 - 1.70 mm	@Thickness 0.0630 - 0.0669 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness 1.60 - 1.70 mm	140 Â°F @Thickness 0.0630 - 0.0669 in	
Flammability, UL94	V-0 @Thickness >=0.800 mm	V-0 @Thickness >=0.0315 in	
	V-0 @Thickness >=1.60 mm	V-0 @Thickness >=0.0630 in	
	V-0 @Thickness >=2.50 mm	V-0 @Thickness >=0.0984 in	
	V-0 @Thickness >=3.20 mm	V-0 @Thickness >=0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+6 - 1.00e+9 ohm	1.00e+6 - 1.00e+9 ohm	IEC 60093

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 310 Â°C	536 - 590 Â°F	Injection Molding
Middle Barrel Temperature	310 - 320 Â°C	590 - 608 Â°F	Injection Molding
Front Barrel Temperature	320 - 325 Â°C	608 - 617 Â°F	Injection Molding
Nozzle Temperature	310 - 330 Â°C	590 - 626 Â°F	Injection Molding
Melt Temperature	330 Â°C	626 Â°F	Resin, Injection Molding
Mold Temperature	130 - 150 Â°C	266 - 302 Â°F	Injection Molding
Drying Temperature	120 - 140 Â°C	248 - 284 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 80 rpm	40 - 80 rpm	Injection Molding

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