

LG Chemical LUCON PO6062 mPPO+CNT+CF+GF

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 10% Glass Filled

Material Notes:

Description: Injection Molding, mPPO+CNT+CF+GF, High Strength, Heat Stability Application: ATM parts, LCD Cell Tray CAS No. 35134-01-4, 25038-54-4, 65997-17-3, 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-PO6062-mPPOCNTCFGF.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 300 Â°C	2.0 g/10 min @Load 4.76 lb, Temperature 572 Â°F	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	167 MPa @Thickness 3.20 mm	24200 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 8.0 % @Thickness 3.20 mm	>= 8.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	235 MPa @Thickness 3.20 mm	34100 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	0.981 GPa @Thickness 3.20 mm	142 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.65 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C @Thickness 6.40 mm	383 Â°F @Thickness 0.252 in	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	Injection Molding
Middle Barrel Temperature	290 - 300 Â°C	554 - 572 Â°F	Injection Molding
Front Barrel Temperature	280 - 310 Â°C	536 - 590 Â°F	Injection Molding
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	Injection Molding
Melt Temperature	280 - 310 Â°C	536 - 590 Â°F	Injection Molding
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	Injection Molding
Drying Temperature	90.0 - 110 Â°C	194 - 230 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 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

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