

LG Chemical LUCON CP-4201F Conductive Thermoplastic, Flame Retardant

Category : Polymer , Thermoplastic

Material Notes:

LG Chemicals has formulated a diverse range of LUCON thermoplastic compounds containing conductive additives, such as carbon powder, (nickel coated) carbon fiber, or stainless steel fiber for solving problems associated with build-up of electrostatic charges, electrostatic discharge, and electromagnetic interference. These materials span the surface resistivity spectrum from antistatic through conductive to EMI shielding (100-10120). Applications: I.C. tray, wafer carrier, I.C. magazine, notebook PC case, home appliance part, LCD cassette tray

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-CP-4201F-Conductive-Thermoplastic-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength at Break	118 MPa	17100 psi	ASTM D638
Elongation at Break	<= 10 %	<= 10 %	ASTM D638
Flexural Strength	177 MPa	25700 psi	ASTM D790
Flexural Modulus	8.83 GPa	1280 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	>= 0.250 W/m-K	>= 1.74 BTU-in/hr-ftÂ²-Â°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	91.0 Â°C	196 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	ASTM D257
Surface Resistance	1.00e+8 ohm	1.00e+8 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 300 Â°C	500 - 572 Â°F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	275 - 320 Â°C	527 - 608 Â°F	
Front Barrel Temperature	275 - 320 Â°C	527 - 608 Â°F	
Nozzle Temperature	275 - 320 Â°C	527 - 608 Â°F	
Melt Temperature	280 - 320 Â°C	536 - 608 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	4 hour	4 hour	
Injection Pressure	49.03 - 78.45 MPa	7111 - 11380 psi	Second
	68.65 - 88.26 MPa	9957 - 12800 psi	First
Back Pressure	0.000 - 1.96 MPa	0.000 - 284 psi	
Screw Speed	40 - 60 rpm	40 - 60 rpm	

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