

LG Chemical LUCON PO-5300M Electrically Conductive Thermoplastic

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-PO-5300M-Electrically-Conductive-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	87	87	ASTM D785
Tensile Strength at Break	108 MPa	15700 psi	ASTM D638
Elongation at Break	<= 10 %	<= 10 %	ASTM D638
Flexural Strength	157 MPa	22800 psi	ASTM D790
Flexural Modulus	9.81 GPa	1420 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	>= 0.250 W/m-K	>= 1.74 BTU-in/hr-ft ² - Â°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	180 Â°C	356 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05 - 1.00e+6 ohm-cm	1e+05 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	1e+05 - 1.00e+6 ohm	1e+05 - 1.00e+6 ohm	ASTM D257

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	300 - 350 Å°C Metric	572 - 662 Å°F English	Comments
Middle Barrel Temperature	300 - 350 Å°C	572 - 662 Å°F	
Front Barrel Temperature	300 - 350 Å°C	572 - 662 Å°F	
Nozzle Temperature	300 - 350 Å°C	572 - 662 Å°F	
Melt Temperature	310 - 360 Å°C	590 - 680 Å°F	
Mold Temperature	80.0 - 150 Å°C	176 - 302 Å°F	
Drying Temperature	110 - 120 Å°C	230 - 248 Å°F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	49.03 - 78.45 MPa	7111 - 11380 psi	Second
	58.8 - 118 MPa	8530 - 17100 psi	First
Back Pressure	0.000 - 3.92 MPa	0.000 - 569 psi	
Screw Speed	40 - 80 rpm	40 - 80 rpm	

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