Gwent Electronic Materials C2050106D7 Carbon Graphite Ink

Category : Fluid , Metal , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

This Carbon Graphite Ink is designed to be used for screen printing working electrodes. This is an ink which has been optimized to give superior electrochemical performance. It gives excellent electrochemical performance with good print properties and fine lines.Applications in Medical Diagnostics, DNA Sensors, Lab-on-a-Chip & Environmental SensorsScreen Printing Equipment: semi-automatic, manualScreen Types: stainless steel, polyester, mesh 156-230tpiSubstrate: polyester, PVC, polycarbonate or ceramicInformation provided by Gwent Electronic Materials Ltd.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Gwent-Electronic-Materials-C2050106D7-Carbon-Graphite-Ink.php

Physical Properties	Metric	English	Comments
Solids Content	38 - 41 % @Temperature 130 Â°C	38 - 41 % @Temperature 266 Â°F	
Viscosity	12000 - 15000 cP @Shear Rate 230 1/s, Temperature 25.0 Â°C	12000 - 15000 cP @Shear Rate 230 1/s, Temperature 77.0 Â°F	Haake VT 550 PK1.1Â°
Thickness	15.5 microns	0.610 mil	Cured, Printed through 230 stainless steel mesh with 13 micron emulsion
Storage Temperature	20.0 Â°C	68.0 Â°F	sealed container

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	28.37 ohm @Thickness 0.0250 mm	28.37 ohm @Thickness 0.000984 in	Normalized, Printed through 230 stainless steel mesh with 13 micron emulsion

Processing Properties	Metric	English	Comments
Cure Time	10.0 min @Temperature 80.0 Â°C	0.167 hour @Temperature 176 Â°F	
	30.0 min @Temperature 60.0 Â°C	0.500 hour @Temperature 140 Â°F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Coverage cm2/g	250	Using a 230 mesh stainless steel screen

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