

Gwent Electronic Materials C2070424P2 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. These electrodes when used in conjunction with specific oxidase type enzymes, enable the detection of many analytes. The ink contains Prussian Blue, a mediator that makes the electrodes specific to hydrogen peroxide detection at potentials near 0V vs. Ag/AgCl reference electrode. Electrodes printed using this ink should be used in a Dynamic stirred solution or in a Flow Injection Mode. Screen Printing Equipment: semi-automatic, manual Screen Types: stainless steel, polyester, mesh 156-230tpi Substrate: polyester, PVC, polycarbonate or ceramic Information provided by Gwent Electronic Materials Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gwent-Electronic-Materials-C2070424P2-Carbon-Graphite-Ink.php

Physical Properties	Metric	English	Comments
Solids Content	42 - 43 %	42 - 43 %	
	@Temperature 130 Å°C	@Temperature 266 Å°F	
Viscosity	2500 - 4500 cP	2500 - 4500 cP	Haake VT 550 PK1.1 Å°
	@Shear Rate 230 1/s, Temperature 25.0 Å°C	@Shear Rate 230 1/s, Temperature 77.0 Å°F	
Thickness	13.9 microns	0.547 mil	Cured, Typical, Printed through 230 stainless steel mesh with 13 micron emulsion
Storage Temperature	20.0 Å°C	68.0 Å°F	sealed container

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	48.7 ohm	48.7 ohm	Typical, Printed through 230 stainless steel mesh with 13 micron emulsion

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 80.0 Å°C	@Temperature 176 Å°F	
Shelf Life	30.0 min	0.500 hour	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	

Descriptive Properties	Value	Comments
Coverage cm ² /g	227	Using a 230 mesh stainless steel screen

Descriptive Properties	Value	Comments
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