

## Gwent Electronic Materials C2070508D4 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 enable the detection of many analytes when used in conjunction with peroxidase and other oxidase type enzymes. The ink contains Potassium Ferrocyanide a mediator that makes the electrodes suitable to use with Horseradish Peroxidase for hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) detection. 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-C2070508D4-Carbon-Graphite-Ink.php](http://www.lookpolymers.com/polymer_Gwent-Electronic-Materials-C2070508D4-Carbon-Graphite-Ink.php)

Physical Properties	Metric	English	Comments
Solids Content	39 - 43 %	39 - 43 %	
	@Temperature 130 Å°C	@Temperature 266 Å°F	
Viscosity	3500 - 4500 cP	3500 - 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	29.71 microns	1.170 mil	Cured, 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	46.28 ohm	46.28 ohm	Printed through 230 stainless steel mesh with 13 micron emulsion
	@Thickness 0.0250 mm	@Thickness 0.000984 in	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 80.0 Å°C	@Temperature 176 Å°F	
	30.0 min	0.500 hour	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
Shelf Life	3.00 Month	3.00 Month	

Descriptive Properties	Value	Comments
Coverage cm <sup>2</sup> /g	280.5	Using a 230 mesh stainless steel screen

## **Contact Songhan Plastic Technology Co.,Ltd.**

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