

## Gwent Electronic Materials C2050517D1 Carbon Graphite Ink

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

**Material Notes:**

This is designed for screen-printing of working electrodes for electrochemical sensors. The paste is highly thixotropic which gives it very good definition on printing. This product has been designed to be compatible with Polymer Silver which can be printed underneath the carbon to improve the conductivity of the printed electrodes. Product Benefits: Low coefficient of variation (CV%), no significant hazardous Materials. 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-C2050517D1-Carbon-Graphite-Ink.php](http://www.lookpolymers.com/polymer_Gwent-Electronic-Materials-C2050517D1-Carbon-Graphite-Ink.php)

Physical Properties	Metric	English	Comments
Solids Content	40.59 - 44.41 % @Temperature 130 Å°C	40.59 - 44.41 % @Temperature 266 Å°F	90 min
Viscosity	3400 - 4600 cP @Shear Rate 230 1/s, Temperature 25.0 Å°C	3400 - 4600 cP @Shear Rate 230 1/s, Temperature 77.0 Å°F	Haake VT 550 PK1.1 Å°
Thickness	24.0 microns	0.945 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	107 ohm	107 ohm	Printed through 230 stainless steel mesh with 13 micron emulsion

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 130 Å°C	0.250 hour @Temperature 266 Å°F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Coverage cm <sup>2</sup> /g	541	Using a 230 mesh stainless steel screen

## Contact Songhan Plastic Technology Co.,Ltd.

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