

## Gwent Electronic Materials C2100126D6 Carbon Graphite Ink

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

### Material Notes:

This ink is designed for biosensor applications, it gives a good electrochemical response when tested with buffered Ferricyanide solutions. This product is based on a unique curing process that results in a low temperature formation of a thermosetting conductive coating that combines excellent chemical, solvent and abrasion resistance. 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-C2100126D6-Carbon-Graphite-Ink.php](http://www.lookpolymers.com/polymer_Gwent-Electronic-Materials-C2100126D6-Carbon-Graphite-Ink.php)

Physical Properties	Metric	English	Comments
Solids Content	42 - 45 %	42 - 45 %	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Viscosity	5160 - 9720 cP	5160 - 9720 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	25.0 - 36.0 microns	0.984 - 1.42 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	31 - 95 ohm	31 - 95 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	60.0 min	1.00 hour	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Coverage cm2/g	245.45	Coverage through at 230ss screen, 13 micron emulsion

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