

Gwent Electronic Materials C2081126P2 Conductive Silver Polymer Paste

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

Material Notes:

This product is a thermoplastic screen printing ink, developed for use in membrane touch switch applications as well as counter electrode in electrochemical sensors and conductive tracks. It may be screen printed on to flexible polymeric substrates, such as Polyimide, PEN and PET substrates, to create a highly conductive track for general circuitry. The ink has undergone electrical and mechanical testing which has shown that it is very flexible. Screen Printing Equipment: semi-automatic, manual Screen Types: stainless steel, polyester, mesh 156-325tpi Substrate: Polyimide, PET, PEN Information provided by Gwent Electronic Materials Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gwent-Electronic-Materials-C2081126P2-Conductive-Silver-Polymer-Paste.php

Physical Properties	Metric	English	Comments
Solids Content	64.5 - 65.5 %	64.5 - 65.5 %	
	@Temperature 700 Å°C	@Temperature 1290 Å°F	
Viscosity	900 - 1100 cP	900 - 1100 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	
Storage Temperature	20.0 Å°C	68.0 Å°F	sealed container

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	0.010 - 0.015 ohm	0.010 - 0.015 ohm	Printed onto 125 Åµm PET film
	@Thickness 0.0250 mm	@Thickness 0.000984 in	
	0.025 - 0.035 ohm	0.025 - 0.035 ohm	Printed onto 125 Åµm PET film
	@Thickness 0.0100 mm	@Thickness 0.000394 in	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	belt dryer
	@Temperature 170 Å°C	@Temperature 338 Å°F	
	10.0 min	0.167 hour	belt dryer
	@Temperature 130 Å°C	@Temperature 266 Å°F	
	10.0 min	0.167 hour	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	30.0 min	0.500 hour	

Processing Properties	Metric @ Temperature 130 Â°C	English @ Temperature 266 Â°F	Comments
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Bending Test	Ink survived 4 cycles	Printed onto 75Âµm PET film, Failure at resistance 10 times the initial value using 2kg weight.
Coverage cm2/g	153	Using a 230 mesh stainless steel screen
Double Curing	Ink survived 4 cycles	Printed onto 75Âµm PET film, Failure at resistance 10 times the initial value using 2kg weight.
Flex Test	Ink survived 101,000 operations without a change in resistance	Printed onto 125Âµm PET film, Flexed from 140mm to 55 mm at 60 times/min
Hot Water Test	Aging factor of 15% after boiling for 1hr.	Printed onto 125Âµm PET film

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China