

Gwent Electronic Materials C2110817D5 Conductive Silver Polymer Paste

Category : Metal , Other Engineering Material , Ceramic/Metallic Coating , Polymer , Thermoplastic , Adhesives, Sealants, and Coatings

Material Notes:

This product is a thermoplastic screen printing ink, developed for use in membrane touch switch applications as well as counter electrode in electro-chemical 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 flexible. The product has excellent adhesion properties (tougher film) with faster evaporating solvents and exhibits good conductivity. Screen Printing Equipment: semi-automatic, manual Screen Types: stainless steel, polyester, mesh 156 to 325tpi 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-C2110817D5-Conductive-Silver-Polymer-Paste.php

Physical Properties	Metric	English	Comments
Solids Content	64.5 - 65.5 % @Temperature 700 Å°C	64.5 - 65.5 % @Temperature 1290 Å°F	
Viscosity	22000 - 27000 cP @Shear Rate 230 1/s, Temperature 25.0 Å°C	22000 - 27000 cP @Shear Rate 230 1/s, Temperature 77.0 Å°F	Haake VT 550 PK1.1Å°
Thickness	20.0 - 30.0 microns	0.787 - 1.18 mil	Using a 230 stainless steel mesh screen
Storage Temperature	20.0 Å°C	68.0 Å°F	sealed container

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	0.025 - 0.035 ohm @Thickness 0.0250 mm	0.025 - 0.035 ohm @Thickness 0.000984 in	Using a 230 stainless steel mesh screen
	0.070 - 0.077 ohm @Thickness 0.0100 mm	0.070 - 0.077 ohm @Thickness 0.000394 in	Using a 230 stainless steel mesh screen

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

Processing Properties	Metric @ Temperature 150 Â°C	English @ Temperature 302 Â°F	box oven Comments
	30.0 min	0.500 hour	box oven
	@Temperature 130 Â°C	@Temperature 266 Â°F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Coverage cm2/g	121.77	Using a 230 stainless steel mesh screen

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