PRODUCT DESCRIPTION
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 flexible.

Product Benefits
The product has excellent adhesion properties (tougher film) with faster evaporating solvents and exhibits good conductivity.

PROCESSING
Screen Printing Equipment
Semi-Automatic, manual

Ink Screen Life
>3 hours

Screen Types
Stainless steel, polyester. Mesh 156-325 tpi

Typical Drying Conditions
Dry at 130-150°C for 10-30 minutes in a box oven or on a belt drier with air flow at 130-170°C for 5-10 min.

Clean Up Solvent
Ethoxy Propanol or Sericol

Substrate
Polyester, PVC, Polycarbonate or ceramic.

Storage
The product should be kept sealed, in its container, and stored at room temperature (20°C)

Shelf Life
In a sealed container, stored correctly, the shelf life is minimum 6 months from despatch.

Diluent/Thinner
S2080305D15.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids Content at 700°C</td>
<td>64.5—65.5%</td>
</tr>
<tr>
<td>Viscosity Haake RS120/2º T1L at 230 sec⁻¹ at 25°C</td>
<td>22—27 Pa s</td>
</tr>
<tr>
<td>Coverage Using a 230 mesh stainless steel screen</td>
<td>121.77 cm² per g</td>
</tr>
<tr>
<td>Sheet Resistivity Using a 230 mesh stainless steel screen</td>
<td>25-35 mOhms/square at 25microns</td>
</tr>
<tr>
<td></td>
<td>70-77 mOhms/square at 10microns</td>
</tr>
<tr>
<td>Cured Thickness Using a 230 mesh stainless steel screen</td>
<td>20 - 30 microns</td>
</tr>
</tbody>
</table>

SAFETY AND HANDLING
These inks are intended for industrial use by trained personnel. It is important for workers to avoid overexposure to chemicals contained in these products.

Read the Material Safety Data Sheet (MSDS) and product labels before using the products.

Keep product container closed when not in use to prevent solvent evaporation and spilling hazard.

Issued by Gwent Group August 2017
Issue 5