DuPont BQ131
SILVER CONDUCTIVE COMPOSITION

Product Description
DuPont BQ131 is silver conductor solvent-based screen-printable polymer thick film paste. It has been designed for anode applications for electrochemical and biochemical sensors.

Product Benefits
- High solids for printing thick electrodes
- Fast drying
- High conductivity

Processing
Drying
Reel-to-reel: 120°C for 1-2 minutes
Box oven: 120°C for 3-5 minutes

Compatibility
Only print-treated polyester film should be used. For optimal anode performance under wet applications, DuPont BQ131 should be printed over DuPont BQ111, DuPont BQ117 or DuPont BQ118 Silver composition.

Cleaning
Ethylene glycol diacetate or dipropylene glycol methyl ether.

Storage and Shelf Life
DuPont BQ Series compositions should be stored in a clean, stable environment at room temperature (~25°C) with their lids tightly sealed. Storage in high temperature (>30°C) or in freezers (<0°C) is NOT recommended as this could cause irreversible changes in the material.

Composition Properties

<table>
<thead>
<tr>
<th>Test</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistivity (mΩ/sq/mil)</td>
<td>25 - 35</td>
</tr>
<tr>
<td>(Draw Down Solid)</td>
<td></td>
</tr>
<tr>
<td>Solder</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Ag depletion (min)</td>
<td>&gt;100</td>
</tr>
</tbody>
</table>

Typical Physical Properties

<table>
<thead>
<tr>
<th>Test</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity (Pa.s)</td>
<td>20-35</td>
</tr>
<tr>
<td>(Brookfield ½RVT @ 10 rpm)</td>
<td></td>
</tr>
<tr>
<td>Solids (150°C)(%)</td>
<td>85 - 89</td>
</tr>
<tr>
<td>Density (g/cc)</td>
<td>3.8</td>
</tr>
<tr>
<td>Thinner</td>
<td>DuPont 3610</td>
</tr>
</tbody>
</table>

This table shows anticipated typical physical properties for DuPont BQ131 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

The shelf life of compositions in factory-sealed (unopened) containers stored under room temperature (~25°C) conditions is 6 months from the date of shipment. Some settling of solids may occur over time, so composition should be stirred thoroughly before use. Some settling of solids may occur over time, so composition should be stirred thoroughly before use.
Safety and Handling
For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

For more information on DuPont BQ131 or other DuPont Microcircuit Materials products, please contact your local representative:

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