C2101125P4
High Brightness Phosphor Ink

PRODUCT DESCRIPTION

This product is part of a range of Heat Curable Inks designed specifically for use in Electro Luminescent systems. These products are based on a unique curing process that results in the low temperature formation of a thermosetting polymer.

Product Benefits

Excellent adhesion to ITO, chemical and environmental resistance.

PROCESSING

Screen Printing Equipment
Semi-Automatic, manual

Ink Screen Life
>3 hours

Screen Types
Up to 156 tpi polyester

Typical Curing Conditions
Belt Dryer 130°C for 3 minutes.
Box Oven 130°C for 10 minutes.

Clean Up Solvent
Ethoxy Propanol or Sericol

Substrate
ITO coated polyester

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
Not recommended.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphor Colour</td>
<td>White</td>
</tr>
<tr>
<td>Luminance (Phosphor powder)</td>
<td>44.7</td>
</tr>
<tr>
<td>24Hrs /cdm²</td>
<td></td>
</tr>
<tr>
<td>Solids Content</td>
<td>82.5 - 84.5%</td>
</tr>
<tr>
<td>at 150°C</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>0.86 - 4.5 Pa s</td>
</tr>
<tr>
<td>Haake RS1 C20/2º at 230 sec⁻¹ at 25°C.</td>
<td></td>
</tr>
<tr>
<td>Coverage</td>
<td>Using a 156 mesh polyester screen</td>
</tr>
</tbody>
</table>

PHYSICAL PROPERTIES PRINTED ON POLYESTER FILM

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cured film thickness</td>
<td>30 microns</td>
</tr>
<tr>
<td>Printed on 175μ ITO coated Polyester</td>
<td></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

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