High Brightness Phosphor Paste (Blue/Green)

PRODUCT DESCRIPTION
This product is part of a range of Heat Curable Pastes 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. This paste has excellent adhesion, chemical and environmental resistance properties.

Product Benefits
Excellent adhesion to ITO, chemical and environmental resistance.

PROCESSING
Pastes must be rolled for 4 - 6 hours prior to use (i.e. using a Rock 'n' Roll mixer or a Tumbler mixer) to ensure product is homogenous.

Stirring with metal implements could damage the product.

Screen Printing Equipment
Semi-Automatic, manual

Paste 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>Blue / Green</td>
</tr>
<tr>
<td>Luminance (Phosphor powder) 24Hrs /cdm²</td>
<td>76.9</td>
</tr>
<tr>
<td>Solids Content at 150°C</td>
<td>75—83%</td>
</tr>
<tr>
<td>Viscosity Haake VT550, PK1.1° at 230 sec⁻¹ at 25°C.</td>
<td>0.71—2.15 Pa s</td>
</tr>
<tr>
<td>Coverage Using a 156 mesh polyester screen</td>
<td>120 cm² per g</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>Double layer on 175µ ITO coated Polyester</td>
<td></td>
</tr>
</tbody>
</table>

SAFETY AND HANDLING
These pastes 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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