Our Products are intended for sale to professional users. The information herein is general information designed to assist customers in determining the suitability of our products for their applications. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event will Sun Chemical be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.

### C2070209P5

**High Brightness Phosphor Paste (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 PRINTED ON POLYESTER FILM

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

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphor Colour</td>
<td>Green</td>
</tr>
<tr>
<td>When switched on</td>
<td></td>
</tr>
<tr>
<td>Luminance (Phosphor powder) 24Hrs /cdm²</td>
<td>73.9</td>
</tr>
<tr>
<td>Solids Content at 150°C</td>
<td>79.0—82.0%</td>
</tr>
<tr>
<td>Viscosity Haake RS 1, C20/2º TiL at 230 sec⁻¹ at 25°C.</td>
<td>1.5—2.50 Pa s</td>
</tr>
<tr>
<td>Coverage Using a 156 mesh polyester screen</td>
<td>120 cm² per g</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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