



C2061027P13
High Brightness Phosphor Paste (Blue/Green)

PRODUCT DESCRIPTION

This product is part of a range of Heat Curable Pastes deigned 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

Phosphor Colour When switched on	Blue / Green
Luminance (Phosphor powder) 24Hrs /cdm ²	76.9
Solids Content at 150°C	75—83%
Viscosity Haake VT550, PK1.1° at 230 sec ⁻¹ at 25°C.	0.71—2.15 Pa s
Coverage Using a 156 mesh polyester screen	120 cm ² per g

PHYSICAL PROPERTIES PRINTED ON POLYESTER FILM

Cured film thickness Double layer on 175µ ITO coated Polyester	30 microns
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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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