

POLYMERIC BINDER FOR PHOSPHOR INKS R2070613D2

GEM has a range of Heat Curable Phosphor Inks designed specifically for use in Electro Luminescent systems.

These Phosphor Inks are based on a unique curing process that results in the low temperature formation of a thermosetting polymer. Phosphor Inks containing these polymers combine excellent chemical, environmental and abrasion resistance with good flexibility and adhesion to ITO coated substrates.

Because of the performance advantages offered by these polymers compared to conventional resin systems, the Polymeric Binder R2070613D2 is offered as a raw material to those customers wishing to compound their own Phosphor Inks

USE

The product is for use as a binder system for phosphor powders. Additional solvent should not be required when making the phosphor ink. However, should extra solvent be needed, please contact us.

PROPERTIES

The product exhibits Newtonian behaviour under shear.

Typical Viscosity is :-

275.7 mPaSec (275 cPoise)
Using a Haake VT550 cone and plate viscometer with the PK1.1° at a shear rate of 50 sec⁻¹ at 25°C.

APPLICATION METHOD

This Polymeric Binder is in a form and at a viscosity suitable for the incorporation of Phosphor powder. When incorporating the Phosphor powder, all the normal safety precautions should be observed. It is important that the phosphor powders do not come into contact with any metal and that the ink is not subjected to high shear during the compounding process.

Curing Conditions

The product is a heat curable system designed to be cured in an oven or on a belt dryer. The cured film has excellent adhesion and flexibility on ITO coated substrates.

Cure Schedule

BELT DRYER 3 minutes at 130°C
BOX OVEN 10 minutes 130°C

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