GWENT GROUP

ADVANCED MATERIAL SYSTEMS

HIGH BRIGHTNESS PHOSPHOR INKS

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.

Phosphor Inks Available

C2061027D13 – BLUE / GREEN High Brite

C2070209D5 – GREEN High Brite

C2061027D15 – BLUE Super High Brite

C2070126D4 – ORANGE High Brite

C2070126D5 – WHITE High Brite

Luminance at 24Hrs / cdm^2

BLUE / GREEN = 76.9

GREEN = 73.9

BLUE = 49.2

ORANGE = 18.6

WHITE = 29.2

Cured Fired Thickness / µm

30 microns

APPLICATION METHOD

The inks are suitable for printing via polyester screens with meshes from180 to 340 counts per inch (70 to 140 counts per cm).

Curing Conditions

The productis 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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