

# **GIBBON** TECHNICAL DATA SHEET Polybond inks

## THE PRODUCT

These inks have proved very popular over many years, for printing on a wide range of impermeable surfaces, such as plastics, acetates, foils and textiles.

## SPECIAL FEATURES

POLYBOND inks are formulated to give thorough drying of the print even when several colours are superimposed as solid areas. The quick drying nature of POLYBOND inks in the stack helps to minimise the dangers of 'set-off' and sticking. Because of the use of plasticisers and lubricating oils in the manufacture of plastics and foils, the dried print can deteriorate on ageing. The 'sweating out' of these plasticisers and oils can cause the printed film to become 'cheesy', resulting in poor adhesion, and inferior scratch and rub resistance.

POLYBOND inks are formulated to overcome these problems.

POLYBOND inks are available as process colours, spot colours, dense black and opaque white. They are also available in lightfast grades for display work. A sealing varnish is also available if required.

POLYBOND inks have been tested and approved by the manufacturers of impermeable materials and are suitable for POLYART, TYVEK, MELLINEX, CRAYLON, FABLON, PEVECEAL, LINSON, BEXFILM, MAC-TAC and BEXOPHANE. Because of the individual properties of each material we always recommend that POLYBOND inks are tested under the press room conditions of your own works before any commercial run is commenced.

### Directions for use.

- i) Use only tap water or distilled water in the fount, to eliminate problems which can be caused by the presence of acids, gum arabic, and glycerine, present in most proprietary fountain solutions. All those ingredients can cause delayed ink drying on non absorbent surfaces. The inks should dry hard within 24 hours if exposed to air. The presence of water trapped in the ink film can cause delayed drying, up to 3/4 days, so keep water setting to an absolute minimum.
- ii) Use non soluble spray powder, as the soluble (vanishing) grades retain moisture on the surface, thus retarding ink drying.
- iii) Stack prints in low piles of 4-6 inches. Do NOT jog sheets.
- iv) We recommend that 4 colour process work should be carried out on 2 colour or 4 colour machines. The fewer number of passes through the machine, the less risk of stretch, mis-register, set-off, and moisture retention.
- v) Use the inks straight from the tin. If reduction of tack is found necessary for any reason, use only our POLYBOND reducer.
- vi) Do not leave POLYBOND inks on the press for long intervals (i.e. lunch breaks) while the machine is idle, as the ink will DRY ON THE ROLLERS. When the machine is stopped spray the rollers with a good anti-skin spray. If stopping machine for several hours, wash up ink completely with normal ink solvents. In some cases printers prefer to make ready with normal ink, changing to POLYBOND when the run commences.

# **GIBBON** **PRINTING INKS**

## MACHINE INFORMATION

<input type="checkbox"/>	Overnight in duct
<input type="checkbox"/>	Overnight on rollers
<input checked="" type="checkbox"/>	Alcohol damping
<input type="checkbox"/>	Integrated damping
<input type="checkbox"/>	Single colour printing - Do not leave for prolonged periods between subsequent colours.
<input checked="" type="checkbox"/>	Letterpress/Litho
	Spray powder - Sprayrite 21
	Reducer - Oil reducer SS8820

## PRINTING INFORMATION

<input type="checkbox"/>	Board coated/uncoated
<input type="checkbox"/>	Paper coated/uncoated
<input checked="" type="checkbox"/>	Plastics/Foil/Polyart

## AFTER PRINTING INFORMATION

<input type="checkbox"/>	U/V Lacquer
<input type="checkbox"/>	Lamination
<input checked="" type="checkbox"/>	Rub resistant
<input checked="" type="checkbox"/>	Gloss
<input type="checkbox"/>	Fast to light - (Dependent on pigment).
<input type="checkbox"/>	Food quality
<input type="checkbox"/>	Taint/Odour

## ADDITIONAL INFORMATION

For multicolour printing on low gramage Polyart or Tyvek substrates, use POLYBOND 2 inks which are low distort versions of the Polybond inks.

Polybond 2 inks are only available in a 4 colour process set (together with lightfast versions of the yellow and magenta).

## HEALTH AND SAFETY

All Gibbon products are formulated on non-hazardous, non-toxic materials, but, as with any oil based inks, common sense should be applied when handled. Avoid contact with the skin and eyes. Remove from skin with soap and water and flush eyes with copious amounts of water. If irritation persists seek medical advice.