JAC SHEETS
STORAGE PRINTING

Storage/Printing on JAC® Digilabel & Datapol products

Storage and Conditioning

Store the material in the original packaging. When just part of the packed sheets is used, close the packaging properly to avoid moisture exchange.
Prior to printing it is of prime importance to have the self-adhesive material acclimatized to print room conditions. This has to be done in the original packaging to avoid moisture exchange.

Printing

Offset Litho
All Paper products are compatible with conventional offset litho processes, the Film products are not.

HP Indigo
All sheets are cut long grain to ensure proper feeding. Digilabel materials have been successfully printed on HP Indigo printers. When printing on films select carefully from advanced properties on the printer driver, media and thickness / substance settings e.g. microns / gm^2.
Ensure that the total thickness/grammage for the laminate (both face and backing paper) is entered.
Note that blanket temperature and time can influence ink anchorage. Blanket temperature can be set between 125 and 140°C. Test at intervals of 5°C if necessary.

Laser Copier/Printers
Digilabel materials have also been successfully printed on toner based laser copier/printers.
When printing on films select carefully from Advanced Properties on the printer driver, media and thickness / substance settings. e.g. microns/gm^2. Ensure that the total thickness/grammage for the laminate (both face and backing paper) is entered

- When printing on PE White Matt use setting for Uncoated Paper
- When printing on PET Transparent Gloss use setting for Over Head Transparencies (OHP)
- Both PP White and PP Transparent Gloss are not suitable for toner fuser printing and should not be used (the materials will not stand the high temperatures in the printer's fuser unit).

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Kiss-/Die-cutting

Die-cut peel-off tabs constitute the fastest and most convenient means of removing the sticker from the silicone backing paper. No other device or method permits removal of the entire sticker in one single operation! JAC® self-adhesive papers and films in sheets can be readily die-cut in any platen and letterpress printing machine. Magnetic cylinders, onto which die plates are fixed, are now being used more and more for in-line die-cutting applications. The laminate is cut in such a way that only the print carrier and the layer of adhesive are penetrated by the cutting die, but not the siliconized backing paper, which is extremely compact and resilient.
This is much easier than it sounds. Many thousands of printers use this method.

Here are three useful tips:

- Perform the die-cutting operation with an underlay consisting of a sheet of pressboard or a metal plate or cylinder.
- Any unevenness in the cutting depth should be compensated, for example, by sticking tissue paper to the underside of the underlay.
- It is often better to cut too deeply, i.e. to slightly penetrate the silicone paper. If the cut does not go deep enough, the adhesive layer will not be severed and your customer will have problems.

Guillotining

The JAC® adhesive PERMANENT, which has been developed specially for JAC® papers in sheets, makes guillotining easy: no sticking together if the guillotine is set and used properly. This is quite astonishing if we consider that the cutting of 400 sheets takes the guillotine blade through 8 mm of adhesive. Other special-purpose adhesives, especially adhesives of low viscosity or thickly coated adhesives, necessitate more careful measures.
For example:

- Very sharp guillotine blade.
- Grind the blade to an acute angle, e.g. 21°.
  Blade replacement is necessary, for example, after cutting cardboard.
- Clamping bar pressure as low as possible.
  Rule of thumb: 1 kp per mm cutting thickness, e.g. 500 kp = 500 mm.
- Rub the blade, especially the back, with silicone oil or hard-grained soap prior to guillotining.
- Guillotine only small quantities at a time, e.g. 200 sheets.
- Repeat the blade rubbing operation – with silicone oil or soap – as often as required during the entire guillotining process.
- Should any residues of adhesive collect on the blade during cutting, simply wipe them off with a cloth soaked in a suitable cleansing agent (e.g. petroleum spirit).

Application

Again acclimatize the printed samples before applying to the intended surface. Under high humid conditions, paper based labels may wrinkle after being applied if not conditioned.
Ultimate bond is generally achieved after 24 hrs.

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