

Polyart® Indigo Series 2 Digital Printing Tips

We would like to thank you for selecting POLYART® for your synthetic paper. We take great pride in the manufacturing of POLYART®. To ensure that your final product conforms to the high quality standards you have set, we are providing the following suggestions.

PRESSES

This Tip Sheet is recommended for Series 2 HP Indigo models or better known as the 5000 series. The 5600 is capable of “One Shot” printing, which is intended for better registration for synthetics.

SUBSTRATE

POLYART® has been given a 3 star rating from HP for run-ability, ink fixing and blanket compatibility.

To obtain the very best results for series 2 presses we recommend the following tips and guidelines.

1. When possible allow the POLYART® to acclimate to your pressroom conditions prior to printing. Making sure the substrate is lying flat with an optimum relative humidity of 50-55% and an ambient air temperature of at least 70 degrees F. Wait until you are ready to load the POLYART® before opening the packs.
2. Ensure the sheets are aired thoroughly before loading into the feeder drawers.
3. Be sure and perform a 1st transfer on the POLYART® that you are setting up on. Perform a color plain registration (CPR) and then reading the optical densities on the white and entering them into the substrate profile. Run a color calibration according to your guidelines and procedures. We do however recommend performing the color calibration on POLYART® for optimal color at what line screen you are going to use.
4. Be certain to use POLYART® for all make ready and color corrections and position adjustments. When proofing, it is best to run a minimum of 8-10 sheets and pick towards the middle to examine for print quality.
5. POLYART® digital is a polyethylene based material and it may be normal to carry out 1 or 2 null cycles to obtain optimum register. It may be helpful to operate the press in heavy substrate mode.
6. It may be necessary to perform a blanket shift if you experience mis-register in any of the separations.
7. You may need to make adjustments to the flipping wheels to obtain better jogging in the stacker. Placing a piece of chipboard on the stacker base may provide better jogging as well.
8. It is strongly advised that you carry out a print test prior to undertaking full production to ensure the substrate is suitable for end user applications.

FINISHING

Inline or offline UV coating may be performed as usual. If you're using mercury vapor UV curing lamps, we recommend a longer wavelength (320-390 nm) for best curing results. Do a trial run to make sure you are getting the correct cure time.

Be sure to check with your UV coating supplier for compatibility and recommendations.

GUILLOTINING

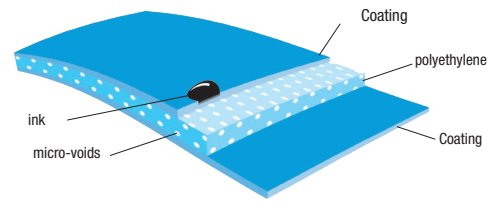
POLYART® may be guillotined without difficulty the same as paper. Makes sure knives are sharp, and because of the compressibility of the sheets, light clamping pressure should be used. It is recommended that if the sheets are UV coated to use more clamping pressure because the slipperiness of the coating may cause the paper to pull when cutting.

PERFORATING

POLYART® may be sprocket punched or perforated. Due to the strength of POLYART® use wide teeth cuts with very small ties (Bridges). Micro-perf is not recommended because of the possibility of initiating a tear. Make sure the cuts run off the sheet so tearing is initiated more easily.

Advice in this document is based on practical field experience and is given in good faith but Arjobex, the manufacturer of Polyart synthetic papers, may not be held liable for loss or damage arising from action based on this information. Arjobex recommends all qualifications be conducted with our technical team.





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DIE CUTTING

Use hard steel rules. When a retention point is required it should be kept as small as possible to eliminate the risk of a tear. All internal corners should always be radiused, since a sharp notch will greatly reduce the internal strength.

DRILLING, PUNCHING, CORNERING

POLYART[®] can be drilled, cornered and punched. Cutting tools should be kept sharp and free of burrs. When drilling it is important that a short dwell time is used in order to eliminate heat generation which can cause fusion of the sheets. To prevent this from happening, it is best to lubricate your bits very often with a bee's or wax stick. It is very important to drill and punch in small batches.

STITCHING AND PERFECT BINDING

POLYART[®] will stitch and sew easily. When perfect binding it is best to contact your glue supplier for their recommendations.

FOLDING

POLYART[®] can be folded like a coated paper on normal sheet folding machined. When accordion folding is done, it is best the complete fold be done in one pass if possible. 51# and 61# weights can be folded without scoring. On heavier weights, scoring is advised

IF YOU HAVE NOT PRINTED POLYART[®] BEFORE, IT IS ALWAYS BEST TO RUN A TRIAL FIRST!

Contact us at (800) 765-9278 and we will be glad to provide you with samples for your trial. If you have any questions regarding this product, please contact us at the above number.

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