

C Wilflex Genesis Inks

Wilflex Genesis (GNS) plastisol inks are specifically formulated for high productivity wet-on-wet printing. Although most Genesis inks are opaque, optimum opacity is achieved with Genesis Super inks. Genesis inks have excellent resistance to build-up. Genesis inks may also be used to print conventional cold-peel transfers.

Highlights

- ▶ Compliant with CPSIA (Consumer Product Safety Improvement Act) 2008
 - ▶ Section 101, Lead Content in Substrates (<300 ppm lead);
 - ▶ 16 CFR, Part 1303, Lead in Paint (<90 ppm lead).
- ▶ Build-up resistant for high productivity printing
- ▶ Printable creamy viscosity.
- ▶ Use to print direct onto fabric or for cold-peel transfers.
- ▶ Satin finish.
- ▶ Excellent flash properties.
- ▶ Available in standard premixed colors. See color card for details.

Printing Tips

- ▶ For best results, follow the recommended Printing Parameters.
- ▶ For one-hit opacity through coarse meshes, use a coating procedure that builds a thick, even stencil to ensure a good column height of ink.
- ▶ Avoid excessive squeegee pressure.
- ▶ For bleed resistance, use an underbase white, such as 11835HT Quick White, 11480HT Bright Tiger, or 11117HT Polywhite.
- ▶ For Cotton fabrics, underbase with 11335WHT Sprint White or 11122WHT Artist Plus White.
- ▶ For cold-peel transfers, use a coated release paper.

Precautions

- ▶ Perform fusion tests before production. Failure to cure ink properly may result in poor wash fastness, inferior adhesion and unacceptable durability. Ink gel and cure temperatures should be measured using a Thermoprobe placed directly in the wet ink film and verified on the production run substrate(s) and production equipment. It is the responsibility of the printer to determine that the correct ink has been selected for a specific substrate and the application processes meet your customer's standards or specifications.
- ▶ Avoid over flashing as it can result in poor inter-coat adhesion of colors.
- ▶ Avoid polyester-based fabrics where dye migration will occur.
- ▶ The viscosity of GNS inks is designed to enhance opacity and printability. Any alteration of viscosity should be minimized.
- ▶ Stir plastisols before printing.
- ▶ Do not dry clean, bleach or iron printed area.
- ▶ Any application not referred in this product bulletin should be pre-tested or consultation sought with Technical Services Department prior to printing.
- ▶ Email: techserviceswilflex@polyone.com

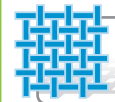
Printing Parameters

Opacity	5	
Bleed Resistance	n/a	
Smooth Surface	9	
Flash	9	
Gloss	5	
Printability	9	



Fabric Types

100% cotton, cotton blends, polyesters, some nylon (generally open weave or mesh types), some synthetics



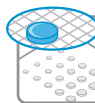
Mesh

Course: 86 - 230 t/in (34 - 90 t/cm)
 Fine Line: 195-355 t/in (77-140 t/cm)
 Tension: 25-35 n/cm² recommended



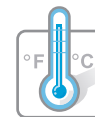
Squeegee

Durometer: 60-80, 70/90, 70/90/70
 Edge: Sharp
 Stroke: Medium for opacity.
 Fast for High Production.
 Avoid excess pressure



Stencil

Direct: 2 over 2
 Capillary/
 thick film: 200-400 micron
 Off contact: 1/16" (.2 cm)



Gel/Cure Temperatures

Gel: 230 F (110 C)
 Cure: 320 F (160 C) entire film



Pigment Loading

EQ: up to 25% max. by weight to boost color
 PC: not recommended



Additives

Extender: 20% max - 10150FNS Finesse
 Reducer: 3% max - 10025VB QEC Viscosity Buster



Storage

65°-90°F (18°-32°C)
 Avoid direct sun.
 Use within one year of receipt.



Clean Up

Wilflex screen wash



Health & Safety

MSDS: www.polyone.com