

PVC / PHTHALATE FREE INKS

# EVOLUTION<sup>®</sup>

## NX SYSTEM

### EVOLUTION NX SYSTEM DEFENDER DYE BLOCKERS

Evolution **NX6710 Defender Grey Dye Blocker** and **NX6711 Defender Black Dye Blocker** are part of the newly reformulated Evolution NX System of PVC-free textile inks. Both blockers can be utilized as a direct-print first down underbase or, as last down backers for cold peel transfers. Either way they block dye molecules in 100% polyester dark colored garments that are prone to dye migration. The particles contained in both versions act as filters to stop dye molecules that try to migrate up through the ink film during the curing or heat transfer process. While NX6710 will prevent dye migration on most 100% fabrics it may be necessary to utilize NX6711 when printing on 100% known to be nasty bleeding fabrics.

### TECHNICAL INFORMATION

Gel Temperature: Ink will gel on surface between 220°-240° F (99°-116° C).

Curing: These inks fully cure between 310°-320° F (154°-160°C) for 45 seconds to one minute inside the conveyor oven. For more delicate fabrics or fabrics with a known history of dye migration lower temperatures of 275°-300° F (135°-149° C) for 1 ½-2 minutes may be used.

Heat Transfers: Evolution Defender Dye Blockers may be used to back inks in the production of cold peel transfers when used in conjunction with Evolution NX6841 Printable Adhesive and C57 Hot Melt Powder to promote best adhesion to substrate.

Mesh: For direct printing an 83-110/inch (16T-43Tcm) mesh provides excellent results for direct printing or backing cold-peel transfers.

Stencil: Any stencil compatible with plastisol inks may be used.

Modification: Because inks are thixotropic and can body up during storage, always stir ink thoroughly prior to printing or adding reducers. If necessary NX6390 Viscosity Reducer in increments of 1-3% may be added to increase printability of ink and help clean ink from the screen. **CAUTION:** Adding too much NX6390 Reducer will reduce opacity and reduce bleed resistance.

Squeegee: 70 durometer or 90/70/90 triple durometer blades are recommended.

Printing Technique: A print/flash print technique may be necessary to produce desired results.

Clean-up: Use Enviro Series 2000 Green or Enviro Series TR Blend.

Storage—inks should be stored at temperatures less than 30°C/84°F. Extended storage in warmer conditions can cause inks to thicken.

### CAUTION

Always test finished prints for color accuracy, curing, adhesion, opacity, crocking, stretch and desired look prior to beginning full production runs. Lancer Group International cannot guarantee the results or back claims that this ink will test PVC-free or phthalate-free if any pigment or additive other than an Evolution Pigment Concentrate or Evolution NX System additive that has been manufactured by Lancer Group International is used in this ink. Contamination can also occur from mixing tools, mixing buckets, spatulas, squeegees, or flood bars that have had prior contact with inks containing PVC's or phthalates and these tools must be thoroughly cleaned before using with the NX System. No claim in this Technical Data Sheet is intended to guarantee Evolution NX6710 or NX6711 works and blocks dye migration on every 100% polyester dark fabric. Customer testing is required and should be implemented when printing any new product or unfamiliar fabric.

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