

# Product Reference Sheet

## DirectTex™ Pro-Poplin



Pro-Poplin is a 6.2 oz/yd<sup>2</sup>, 100% polyester fabric that is the product of choice when image quality and performance are the main criteria. Its higher opacity easily hides a graphic's support structure and it is crease and wrinkle free which allows the graphics to be shipped folded-up. Pro-Poplin offers a soft hand and excellent drape with a rich feel, while its high white point allows the graphic's colors to pop. It is NFPA 701 fire standard rated for use in most public environments. Like all Neschen DirectTex™ products, Pro-Poplin has a specialized coating developed to hold ink for direct to textile printing before sublimation, delivering the brightest colors and sharpest edges. Pro-Poplin is compatible with solvent, aqueous or oil based dye transfer techniques and with flexible UV curable inks.

### Properties at a Glance

- Weight – 6.2 oz/yd<sup>2</sup> (210 g/m<sup>2</sup>)
- Finish – Matte
- Thickness – 16 mil (398 μ)
- Tear strength – 97/380 N/15mm
- Fire rating – NFPA 701, B1
- Thread – 100% polyester
- Weave – knit weave
- For Indoor and outdoor use

### Applications

- Trade show graphics – use in pop-up displays and frame systems
- Event table cloths and skirts
- Banners

### Features-Advantages-Benefits

Features	Advantages	Benefits
Direct print onto textile	Provides greater flexibility, while also providing the option to sublimate in-line with printer	Reduces a two-step process to one-step
Fabric is wrinkle & crease free	Graphics can be reused multiple times for trade show displays & signage	Saves money on reprinting costly signage and shipping because graphics are foldable
Higher opacity	Allows you to build a display with less light show through	Minimizes shadows that distract from the graphics
High white point	Creates better contrast between image and base	Provides more graphic color “pop”
Light stretch	Can be pulled taught over a frame system or bar	Saves money by allowing you to create textile walls in place of solid surfaces
Premium DirectTex coating	Excellent ink hold to minimize cost	Sharper edges with no color loss when direct printing
Fire resistant	Meets NFPA 701	Allows product to be used in public spaces

Temperatures and thicknesses are given as approximate values. All data are standard values. The information in this specification sheet is based on findings obtained in practice. Because of the high number of factors which can have an effect during handling and application, customer tests will be required. A legally binding guarantee of specific properties is not to be inferred from our specifications. The information given here may be subject to change without notice. Neschen has not prepared MSDSs for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the Neschen directions for use, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards. The purchaser should test material to determine if it is suitable for their own specific purpose.

# Product Reference Sheet

## DirectTex™ Pro-Poplin



### Ink Compatibility

- For direct to textile printing.
- DirectTex products may also be used with traditional dye sublimation technology.
  - Compatible with solvent, aqueous or oil based dye transfer techniques.
- Can also be used with UV curable inks.

Ink Type	
Direct dye sublimation	✓
Transfer dye sublimation	✓
UV curable inks	✓

### Printing Recommendations

- Print directly onto the media.
- For additional durability, run through the sublimator twice, making sure the fixing temperature is set between 375°F – 410°F. For best results, fixing temperatures should be tested with a small sample before the start of production.
- To prevent ink transfer onto the heat press during sublimation, the use of tissue paper is recommended.
- All DirectTex™ textiles are pre-shrunk. A minimal shrinkage of up to 3% can be expected when sublimating polyester textiles.
- Use very low tension to prevent material stretch during the sublimation process.

### Finishing Recommendations

- Cutting – The product can be cut with fabric scissors, but for best results use a heat knife and blade (Neschen item # 600HSG0 & 600H205) on glass or other heat resistant surface with a metal ruler to seal the edges.
- Sewing – Use polyester thread to prevent material puckering.
- Hemming Tape – Banner tape can be used in place of stitching, check for adhesive compatibility as some adhesives do not stick well to fabric. Tape may affect fire retardant properties.
- Cleaning – If graphic becomes soiled, use a lint-free, clean cloth with warm soapy water and gently rub the affected areas. Test all cleaning procedures on a small inconspicuous area (or on a previously printed test print) so that it does not affect the graphic. Rubbing wet ink may cause smudging.
- Wrinkle Removal – The best way to eliminate any wrinkles that may form during transport or extended storage of the graphic is with a handheld steamer. Use the setting recommended for polyester fabrics and apply the steam to the back side of the graphic.

### Storage Conditions

- Store unused media in the plastic over wrap to protect it from humidity changes and contaminants. Store media on an even flat surface to prevent dents that may affect imaging performance. Media may also be stored standing on end or on a media caddy.
- Store media in an area with low humidity and limit its exposure to heat and direct sunlight.

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