

## Inkjetfilm HR165 CTiF - Computer to Inkjetfilm

the ideal alternative to expensive repro films and CTScreen

- **New high-tech inkjet printable clear pet film, high resolution**, based on bi-oriented pet coated with a dedicated ink jet receiving layer, which provides highest optical density and edge definition.
- HR165 features make the production process easier, no need of chemicals and/or water.

### TECHNICAL DATA SHEET

Properties	test method	unit	typical values*	
Thickness	ASTM-D-374	µm	± 166	520 Gauge
Thickness tolerance	ASTM-D-374	µm	± 4	± 16 Gauge
Tens strenght	ASTM-D-882	kg/sqm	MD: 20	TD: 23
Elongation	ASTM-D-882	%	MD: 90 min.	TD: 80 min.
Friction coeff	ASTM-D-1894		Static: 0,45	Kinetic: 0,40
Optical density		Dmax UV	>4-5,0	
Shrink (150°/30 min.)	ASTM-D-1204	%	MD: 2,45	TD: 0,45

\* Production conditioned tolerances may occur

### Applications:

- HR165 is suitable for dye-, pigment-, and latex inks. HR 165 has been designed for "high resolution image reproduction", as well as to produce: - *no defects light exposure templates*, for contact reproduction processes. Ink jet printed films as matrix for repro, hardflexo, silk screen, OHP, etc. Fast drying, scratch- and bleed-resistant, easy filing.
- **Our innovative inkjet films HR165** have made now possible a quick, defect-free, cost- reduced production of films for positive/negative images and light exposure templates. The print quality level achievable with our film, is far higher than the one obtained with traditional inkjet, laser and/or gelatin coated films, thus improving the economic convenience factor of HR165 when compared with traditional films.

### Suggestions for usage:

- best workability at 15-30°C / RMH 45 - 65%
- HR165 is suitable for being processed with dye and pigment inks, black inks (K) and new Epson original inks for Epson SureColor printers
- we suggest protecting the HR foil from dust and water
- please avoid fingerprints on the ink jet printable side of the HR165 foil
- to obtain best printing performance, the printer must be programmed for the highest level of print quality
- check the coloring (the printing reproducibility is rip depending)
- printing register accuracy: optimization of the plotter setting and air conditioning in the workshop

### Warehousing:

- Temperature: 15-30°C- 65% RMH, to assure/ maintain the printing characteristics
- Once opened the original packing, our film must be stocked away from direct sunlight, in a clean and dry ambience.

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## ➤ Your advantages with HR165

High performance inkjet HR165 is dedicated to the production of film templates and color settings. The PET base film is coated with a special ink jet color absorbing layer, which provides extremely high color density. HR165, once printed, allows very quick light exposures, when used for templates, silkscreen matrices, flexo prototypes. HR165 is used for color setting. When compared with traditional photo films, HR165 allows a strong simplification of the printing process due to absence of chemicals and water washing. All this turn into a strong reduce of the costs in the reproduction process.

### ➤ How will the quality be guaranteed?

To achieve the best quality in the ink jet printing of HR165 film, a synchronization of all parameters of the workflow, software, printers, inks, printing substrates, regular check-up and maintenance of the printer color settings, working area is needed

## ➤ Inkjet film HR165

**Printing substrate:** Ink jet printable transparent pet film dimensionally stable, antistatic treatment

**Thickness:** 165 µ 215 gr/sqm - on request for very high-quality jobs and big widths -

**Surface:** satin- clear finish, ultra-transparent

**Roll length:** 30 m standard Widths: 17"/43,1cm, 24"/61cm, 36"/91,4cm, 42"/106,7cm, 44"/111,8cm, 50"/127cm, 60"/152,4cm., Special **dimensions:** available on demand

**Formats:** A4 / A3 / A3SR / A2. Special **dimensions:** available on demand

**Core:** optimal 76 mm, for best lay flat properties. - **Sensor strips for HP:** on request

**Market segments:** Graphic arts – prepress – silkscreen - hardflexo - textile print - rubber stamps,

**Particularities:** Low start up and running costs, without high investments.

HR165 is specially dedicated to high- definitions image reproduction, digital production of templates good compatibility with Screen- and Polymeremulsions

**Screen width: new till 254 lpi/100-l/cm**, thus providing finer nuances regulation and grey shading.

- High covering, >4 - 5,0 UV-density with original black ink (K) Epson (and new original inks for Epson SureColor ), Canon Lucia, Roland, Mimaki, Mutoh, HP, Kodak, etc.
- High covering, >4.0 UV-density also with latex inks
- Higher passer accuracy and lines/edge definition, till 254 lpi /100 l/cm screen
- optimised for the new highspeed plotter generation.
- higher transparency >89%, as well as good performance when vacuum is applied.
- quick drying times, even with high grammage ink deposition
- particularly good chemical and mechanical resistance
- Scratch- and bleed-resistant
- lamination with other substrates
- good filling (archives), no foil-to-foil ink transfer
- simplification of the production process, no need of chemicals and/or water
- good constant quality in a market which is very sensible to price/quality variations.
- With the latest high-tech printer generation from Epson, it is no longer necessary to install computer-to-screen, as you can work cheaply and quickly with 2 or 3 plotters.

### ➤ Profit from the system!

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