

## Thermal Transfer Ribbon Product Information

Last update:  
Aug. 2016  
Ref: PS-1794 (Rev. 2)

### RESIN SPECIALTY (For Textile Applications)

#### RIBBON PROPERTY

- Base Material Polyester film
- Base Thickness ( $\mu\text{m}$ )  $4.5 \pm 0.4$

#### INK PROPERTY

- Ink Color Black
- Ink Transparency More than 0.65 ~ 1.65

#### PRINTING PROPERTY

- Image Density  
Min. 0.8 (polyester)  
Min 1.0 (acetate)
- Image Resolution Min. ANSI B

#### IMAGE DURABILITY

- Ironing Resistance GD max. 0.07 (direct, covered with cloth)
- Smear Resistance (dry, wet) GD max. 0.07 (direct, covered with cloth)
- Washing Resistance (water) ID min 1.0 min. ANSI B (nylon)  
ID min 0.6 (polyester)  
ID min 0.7 (acetate)
- Washing Resistance (dry) ID min 1.0 min. ANSI B (nylon)  
ID min 0.6 (polyester)  
ID min 0.7 (acetate)
- Bleach Resistance ID min 1.0 min. ANSI B (nylon)  
ID min 0.6 (polyester)  
ID min 0.8 (acetate)
- Sweat Resistance ID min 1.0 min. ANSI B (nylon)  
ID min 0.6 (polyester)  
ID min 0.8 (acetate)

ID(GD): The differences in image (ground) density resulting from the "before test" and "after test"  
*\*All tests specifications are based on Ricoh's standard test methods.*

#### USAGE ENVIRONMENT:

5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH

#### STORAGE CONDITIONS:

Keep indoors, away from high temperatures, high humidity and direct sunlight. Keep master rolls hanging horizontally.

#### GUARANTEE PERIOD:

- \*Finished rolls: 2 years after manufacturing
- \*Master rolls: 1 year after coating

#### FEATURES:

- Printable on receiving cloths (nylon, polyester and acetate) and films
- Super smear resistance up to 150°C (302°F); no blurring of image occurs from ironing
- Print images are highly durable against water and dry cleaning
- Superior thermal head matching qualities using Ricoh's unique back-side coating

*The above data represents product averages, allowing for industry accepted variances. These products should be tested in the end-use conditions to ensure that they meet the requirements of the specific application. Specifications may change without notice.*

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# D110C

(For Flat Head Printers)

## Thermal Transfer Ribbon Product Information

**RICOH**  
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Last update:  
Apr. 2017  
Ref: PS-1795 (Rev. 1)

### RESIN SPECIALTY (For Textile Applications)

#### RIBBON PROPERTY

- Base Material
- Base Thickness ( $\mu\text{m}$ )

Polyester film  
4.5  $\pm$  0.4

#### INK PROPERTY

- Ink Color
- Ink Transparency

Black  
More than 0.65 ~ 1.65

#### IMAGE PROPERTY

- Image Density

Min. 1.2 (nylon)  
Min. 0.8 (polyester)  
Min 1.0 (acetate)  
Min. ANSI B

- Image Resolution

#### IMAGE DURABILITY

- Ironing Resistance
- Smear Resistance (wet)
- Washing Resistance (water 5 times)

GD max. 0.07 (background image density w/direct and indirect ironing 10x)  
Image not changed after rubbing 10x  
ID min 1.20 (nylon)

- Washing Resistance (dry 5 times)

ID min 0.95 (polyester)  
ID min 0.75 (acetate)  
ID min 1.25 (nylon)

- Bleach Resistance

ID min 1.20 (polyester)  
ID min 1.00 (acetate)  
ID min 1.50 (nylon)

- Sweat Resistance

ID min 1.25 (polyester)  
ID min 1.10 (acetate)  
ID min 1.40 (nylon)

ID min 1.20 (polyester)  
ID min 1.00 (acetate)

ID(GD): The differences in image (ground) density resulting from the "before test" and "after test"  
*\*All tests specifications are based on Ricoh's standard test methods.*

#### USAGE ENVIRONMENT:

5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH

#### STORAGE CONDITIONS:

Keep indoors, away from high temperatures, high humidity and direct sunlight. Keep master rolls hanging horizontally.

#### GUARANTEE PERIOD:

\*Finished rolls:

2 years after manufacturing

\*Master rolls:

1 year after coating

#### FEATURES:

- Printable on receiving cloths (nylon, polyester and acetate) and films
- Super smear resistance up to 150°C (302°F); no blurring of image occurs from ironing
- Print images are highly durable against water and dry cleaning
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