

**THERMAL TRANSFER RIBBON  
PRODUCT INFORMATION**

**D110C**  
(For Textile application)

**SPECIALTY  
RESIN**

**RIBBON PROPERTY**

• Base Material	Polyester film
• Base Thickness (μm)	4.5 ± 0.4

**INK PROPERTY**

• Ink Color	Black
• Ink transparency	More than 0.65 ~ 1.65

**IMAGE PROPERTY**

• Image Density:	Min. 1.2 (nylon)
	Min. 0.8 (polyester)
	Min. 1.0 (acetate)
• Image Resolution:	Min. ANSI B

**IMAGE DURABILITY**

• Ironing resistance:	GD max. 0.07 (printing cloth ground, covered cloth ground)
• Smear resistance (wet):	No damage of the image, does not transfer the covered cloth
• Washing resistance (water 5 times):	ID min. 1.20 (nylon)
	ID min. 0.95 (polyester)
	ID min. 0.75 (athetete)
• Washing resistance (dry 5 times):	ID min. 1.25 (nylon)
	ID min. 1.20 (polyester)
	ID min. 1.00 (athetete)
• Bleach resistance:	ID min. 1.50 (nylon)
	ID min. 1.25 (polyester)
	ID min. 1.10 (athetete)
• Sweat resistance:	ID min. 1.40 (nylon)
	ID min. 1.20 (polyester)
	ID min. 1.00 (athetete)

\* ID(GD): The difference of image (ground) density between "before test" and "after test".

**OTHERS**

• Preservability:	Image property remains and free from blocking even after 72 hours at 50°C preservation.
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\* All tests in this specification are done by Ricoh standard test methods.

**USAGE ENVIRONMENT:** 5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH

**STORAGE CONDITIONS:** Keep indoor, avoiding high temperature (such as beside heat source), high humidity, and direct sunlight. As for master rolls, keep them horizontally hanging.

**GUARANTEE PERIOD:**

\* Finished rolls: 4 years after manufacturing  
\* Master rolls : 1 year after coating

**FEATURES:**

1. Printable on receiving cloths (nylon, polyester, acetate) and films.
2. Super smear resistance even at temperatures as high as 150°C (302°F); image won't blur even with ironing.
3. Printing image durable against water and dry cleaning.
4. RICOH's unique coating on the back side allows reliable and superior matching qualities with thermal head.

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