

# Ricoh Electronics, Inc.

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# RICOH

## THERMAL TRANSFER RIBBON PRODUCT INFORMATION

# D210A

( For Flat Head Printers )

RESIN SUPER  
SMEARLESS  
(For Textile Application)

### RIBBON PROPERTY

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

### INK PROPERTY

• Ink Color	Blue
• Ink transparency	Min. 0.65

### IMAGE PROPERTY

• Image Density:	Min. 1.3 (nylon)
	Min.1.0 (polyester)
	Min. 0.9 (acetate)
• Image Resolution:	Min. ANSI C

### IMAGE DURABILITY

• Ironing resistance:	ΔGD max. 0.07 (direct, covered with cloth)
• Smear resistance (dry,wet):	ΔGD max. 0.07 (direct, covered with cloth)
• Washing resistance (water):	ΔID max. 0.20, covered cloth ΔGD max. 0.07 (nylon)
	ΔID max. 0.25, covered cloth ΔGD max. 0.07 (polyester)
	ΔID max. 0.20, covered cloth ΔGD max. 0.07 (acetate)
• Washing resistance (dry):	ΔID max. 0.25, covered cloth ΔGD max. 0.07 (nylon)
	ΔID max. 0.15, covered cloth ΔGD max. 0.07 (polyester)
	ΔID max. 0.15, covered cloth ΔGD max. 0.07 (acetate)
• Bleach resistance:	ΔID max. 0.05, covered cloth ΔGD max. 0.07 (nylon)
	ΔID max. 0.10, covered cloth ΔGD max. 0.07 (polyester)
• Sweat resistance:	ΔID max. 0.10, covered cloth ΔGD max. 0.07 (acetate)
	ΔID max. 0.05, covered cloth ΔGD max. 0.07 (nylon)
	ΔID max. 0.10, covered cloth ΔGD max. 0.07 (polyester)
	ΔID max. 0.10, covered cloth ΔGD max. 0.07 (acetate)

\* ΔID(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: STORAGE CONDITIONS:

5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH  
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, Master rolls: 4 years after manufacturing

### 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.
5. Blue color

*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.*