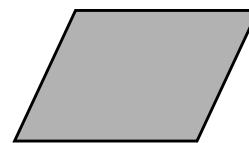


Thermal Transfer Ribbon
B110CR



TTR property

Base Material	Polyester film
Base Caliper(μ m)	4.5 ± 0.4

Ink property

Ink color	Black
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Image property

Image density	1.5 or more*
Resolution	1mm Character, 0.1mm line and 1dot period are realized *

Image durability

Scratch Resistance	Not damaged (scratched 100times by sharp edge at 40 degree angle)*	
Chemical Resistance	Ethanol	Rank 4 or more (wiped 1000times with cotton cloth at 100gf/cm ²)*
	Methanol	Rank 4 or more (wiped 1000times with cotton cloth at 100gf/cm ²)*
	IPA	Rank 4 or more (wiped 1000times with cotton cloth at 100gf/cm ²)*
	Windshield Washer	Rank 4 or more (dipped(25°C 1h) in chemical and wiped 1time)*
	Gasoline	Rank 4 or more (dipped(25°C 5h) in chemical and wiped 1time)*
	Diesel Fuel	Rank 4 or more (dipped(25°C 1h) in chemical and wiped 1time)*
	Engine Oil	Rank 4 or more (dipped(50°C 4h) in chemical and wiped 1time)*
	Power Steering Fluid	Rank 4 or more (dipped(100°C 5h) in chemical and wiped 1time)*
	Mission Fluid	Rank 4 or more (dipped(100°C 1h) in chemical and wiped 1time)*
	Gasohol	Rank 4 or more (dipped(25°C 5h) in chemical and wiped 1time)*
	Engine Coolant	Rank 4 or more (dipped(95°C 1h) in chemical and wiped 1time)*
	Brake Fluid	Rank 4 or more (dipped(50°C 5min) in chemical and wiped 1time)*

Rank
5: No damage
4: Image is partly damaged
 Bar and characters are readable
3: Image is partly damaged
 Bar is readable
 Characters are partly unreadable
2: Image is partly damaged
 Bar and characters are unreadable
1: Image is wholly damaged

Others

Preservation property	Image property remains and free from blocking even after 50 ~ 72 hours preservation
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*RICOH standard test method

The above image and preservation properties may change depending on receiving materials.

Storage conditions

Keep in-door, avoiding high temperature (such as beside heat source), high humidity and direct sun light. As for jumbo rolls, keep them horizontally hanging.

Usage environment

5 ~ 35 °C, 30 ~ 85%RH

Guarantee period

Jumbo rolls : 4 years after production

Note : Specifications and appearance of the product are subject to change without notice.

Dec.'06