



## PRODUCTS

### WAX

- ▶ W110 General Purpose Wax
- W137 Premium Plus Wax

### WAX/RESIN

- M250 Premium Plus Wax/Resin

### RESIN

- R300 General Purpose Resin
- R316 Specialty Resin
- R340 Permanent Care Resin
- R510 Ultra Durable Resin

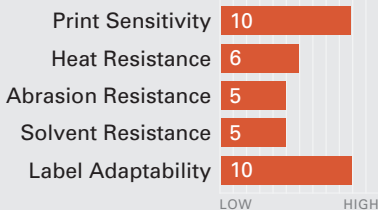
### NEAR EDGE

- W190 Near Edge Wax
- M290 Near Edge Wax/Resin
- R390 Near Edge Resin

### COLORS & METALLICS

- W120C General Color Wax
- R316C Specialty Color Resin
- R510C Durable Color Resin

## W110 PROPERTIES



# W110

## GENERAL PURPOSE WAX

### Thermal Transfer Ribbon

### Product Description

The favored choice for general purpose labeling, W110 is perfect for high-speed printing at low temperatures on rough and/or porous label materials. W110 includes all of DNP's standard ribbon properties – anti-static for easy handling and protecting the print head, unparalleled back coating technology for extended print head life, and the quality Edge Definition™ that has established DNP as the industry leader for clean, dense bar codes. W110 is DNP's most economical wax – offering quality and reliability at a competitive price.

### Recommended Applications



GENERAL



SHIPPING



LOGISTICS



INVENTORY



RETAIL



FLEXIBLE PACKAGE



PHARMACEUTICAL

### Recommended Substrates

Coated/uncoated paper, synthetic paper, polyethylene, polypropylene, polyolefin, Kimdura®, Valeron®, Polyart®

### Performance Characteristics

- W110 prints extremely well on rough and/or porous surfaces
- High sensitivity perfect for low temperature print settings
- Most economical choice for general label printing
- Anti-static for easy handling and protecting print head
- Industry leading in Edge Definition™ for clean, dense bar codes
- DNP's specialty formulated back coating for print head protection

### Contact DNP

1.800.814.4672

www.dnpribbons.com

### THE DAI NIPPON PRINTING GROUP

DNP is the largest manufacturer of thermal transfer ribbons for facsimile machines, bar code and dye-sublimation printers. DNP is also the world's largest diversified printing/coating technologies company. At its 40 plants, both in Japan and overseas, DNP's operations include commercial printing, packaging, decorative materials, electronics, business forms and information media supplies. DNP is a Global Fortune 500 company with \$13 billion in annual revenue.

**WAX**

**THE WORLD'S LARGEST THERMAL TRANSFER RIBBON MANUFACTURER**

**TECHNICAL DATA SHEET**

## RIBBON SPECIFICATIONS

DESCRIPTION	TECHNICAL SPECIFICATIONS
Ink	Wax
Color	Black
Ink Thickness	2.8 ± 0.4μ
Base Film Thickness	4.5μ
Ribbon Thickness	9.9 ± 0.7μ
Ink Melting Point	68°C–70°C (154.4°F–158.0°F)
Print Density	>1.8

## PERFORMANCE OF PRINTED IMAGE

DESCRIPTION	TECHNICAL SPECIFICATIONS
Tested Substrate	Fasson® Trans-Therm® IC
Test Method	Crockmeter
Abrasion Resistance Test	10 cycles @ 900g covered with cloth*
Solvent Resistance Test	WATER 1000 cycles @ 248g covered with cloth*
	IPA 1000 cycles @ 248g covered with cloth*
	BRAKE FLUID 1000 cycles @ 248g covered with cloth*
Heat Resistance	<70°C (<158°F)
Print Speed Range	2 to 12 IPS

## CONVERSION CHART

mm to in.	(mm ÷ 25.4)	in. to mm	(in. ÷ 0.03937)
m to ft.	(m ÷ 0.3048)	ft. to m	(ft. ÷ 3.2808)
C° to F°	[(1.8 x C°) + 32]	F° to C°	[(F° ÷ 1.8) – 17.777]
in. to m	(MSI ÷ 0.645)	m <sup>2</sup> to MSI	(m <sup>2</sup> x 0.645)

## RIBBON STORAGE CONDITIONS

Temperature	5°C to 35°C (41°F to 95°F)
Humidity	10% to 85% relative humidity
Light	Avoid direct sunlight

Quality Systems  
ISO Registered

\*Highest number of cycles where ANSI grade A can still be scanned.

All information on data sheet generated at DNP laboratories worldwide. DNP reserves the right that measured values may vary slightly when tested under different environments. Information subject to revisions without notification.

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## WAX

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# DNP

The Dai Nippon Printing Group

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