



PRODUCTS

WAX

W110	General Purpose Wax
W137	Premium Plus Wax

WAX/RESIN

M250	Premium Plus Wax/Resin
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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

R300 PROPERTIES



R300

GENERAL PURPOSE RESIN

Thermal Transfer Ribbon

Product Description

DNP has the most elite resin ribbon product offering in the industry. R300 offers a wide variety of printing solutions at high print speeds, making it the most diverse resin of its kind. It outperforms the competition in abrasion and solvent resistance, and contains DNP's standard anti-static and back coat properties for protecting print heads. And, like all DNP ribbons, R300 is an industry leader in Edge Definition™ for clean, extremely durable, and dense bar codes.

Recommended Applications



Recommended Substrates

Synthetic paper, polyester, polyethylene, polypropylene, polyolefin, PVC cards, vinyl

Performance Characteristics

- Excellent print quality at high speeds
- Extreme durability against solvents and abrasions
- Extensive label adaptability expanding application options
- UL Recognized
- Industry leading in Edge Definition™ for clean, durable, and dense bar codes
- Most economical resin with DNP's unmatched scratch and solvent resistance
- Anti-static for easy handling and extended print head life
- DNP's specialty formulated back coating for print head protection

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.

Contact DNP

1.800.814.4672

www.dnpribbons.com

RESIN

THE WORLD'S LARGEST THERMAL TRANSFER RIBBON MANUFACTURER

TECHNICAL DATA SHEET

RIBBON SPECIFICATIONS

DESCRIPTION	TECHNICAL SPECIFICATIONS
Ink	Resin
Color	Black
Ink Thickness	1.4 ± 0.4μ
Base Film Thickness	4.5μ
Ribbon Thickness	8.7 ± 0.8μ
Ink Melting Point	Under measurement
Print Density	>1.6

PERFORMANCE OF PRINTED IMAGE

DESCRIPTION	TECHNICAL SPECIFICATIONS
Tested Substrate	FLEXcon THERMAfilm® SELECT™ 21830
Abrasion Resistance Test (TEST METHOD: Standardized Abrasion Test Wheel)	30 cycles @ 500g covered CS-10
Solvent Resistance Test (TEST METHOD: Crockmeter)	<div>WATER</div> <div>IPA</div> <div>KEROSENE</div> <div>GASOLINE</div>
	1000 cycles @ 248g covered with cloth*
	1000 cycles @ 248g covered with cloth*
	300 cycles @ 248g covered with cloth*
	90 cycles @ 248g covered with cloth*
Heat Resistance	<170°C (<338°F)
Print Speed	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)	m² to MSI	(m² 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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RESIN

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