



## R300 GENERAL PURPOSE RESIN Thermal Transfer Ribbon

### Product Description

DNP has the most elite resin ribbon offering in the industry. R300's extensive label adaptability and high print speed capability make it the most diverse resin of its kind. It outperforms the competition in abrasion and solvent resistance, uses less print energy and is designed with DNP's standard anti-static and back coat properties to protect print heads and extend print head life. And, like all DNP ribbons, R300 is an industry leader in Edge Definition™ producing dark, dense images for improved scan rates.

### Recommended Applications



### Recommended Substrates

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

### Performance Characteristics

- Excellent print quality at high speeds using less print energy
- Extreme durability and solvent resistance
- Extensive label adaptability expanding application options
- UL / CSA Recognized
- Unbeatable Edge Definition™ for dark, dense images and improved scan rates
- Most economical resin with DNP's unmatched abrasion resistance
- Anti-static for easy handling and extended print head life
- DNP's specially formulated back coating for print head protection

### THE DAI NIPPON PRINTING GROUP

DNP is the world's largest manufacturer of thermal transfer ribbons for facsimile, barcode and dye-sublimation printers. DNP is also the largest diversified printing/coating technologies company in the world. 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.

#### PRODUCTS

##### WAX

- W110 General Purpose Wax
- W137 Premium Plus Wax
- W160 Ultra Durable Wax

##### WAX/RESIN

- M260 Ultra Durable Wax/Resin

##### RESIN

- R300 General Purpose Resin
- R316 Specialty Resin
- R350 Permanent Care Resin
- R510 Ultra Durable Resin

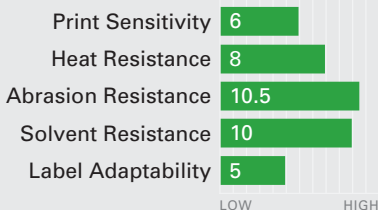
##### NEAR EDGE

- W190 Near Edge Wax
- M290 Near Edge Wax/Resin
- M295 Near Edge Wax/Resin
- R390 Near Edge Resin

##### COLORS & METALLICS

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

#### R300 PROPERTIES



### 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	1.15 + 0.25 – 0 $\mu$
Base Film Thickness	4.5 $\mu$
Ribbon Thickness	5.80 + 0.80 – 0.85 $\mu$
Ink Melting Point	125°C (257°F)
Print Density	>1.6

## PERFORMANCE OF PRINTED IMAGE

DESCRIPTION	TECHNICAL SPECIFICATIONS
Tested Substrate	FLEXcon THERMAfilm® SELECT™ 21830
Abrasion Resistance Test (TEST DEVICE: Taber Abraser)	30 cycles @ 500g, CS-10 wheel
Solvent Resistance Test (TEST DEVICE: Crockmeter)	WATER 1000 cycles @ 248g covered with cloth*
	IPA 1000 cycles @ 248g covered with cloth*
	KEROSENE 300 cycles @ 248g covered with cloth*
	GASOLINE 90 cycles @ 248g covered with cloth*
Heat Resistance	<170°C (<338°F)
Print Speed	2 to 12 IPS

## CONVERSION CHART

mm to in.	(mm $\div$ 25.4)	in. to mm	(in. $\div$ 0.03937)
m to ft.	(m $\div$ 0.3048)	ft. to m	(ft. $\div$ 3.2808)
C° to F°	[(1.8 x C°) + 32]	F° to C°	[(F° $\div$ 1.8) – 17.777]
in. to m	(MSI $\div$ 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.

MF0406

## RESIN

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