



DNP

a Dai Nippon Printing
company

**THERMAL TRANSFER
RIBBONS**

PRODUCT BROCHURE

DELIVERING
VARIABLE PRINT
EXCELLENCE

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| Near-edge Resin | | Colour Wax | | Colour Wax/ Resin | Colour Resin | | | | | Specialty Resin | | | | | | |
|-----------------------------|-------------------------------------|------------|--|-------------------|--------------|--|--|--|--|-----------------|--|--|--|--|--|--|
| R390 | General purpose resin | | | | | | | | | | | | | | | |
| R396 | High speed durable resin | | | | | | | | | | | | | | | |
| TR3020 | Transparent wax | | | | | | | | | | | | | | | |
| TR302X | General purpose colour wax | | | | | | | | | | | | | | | |
| M295C | Print-on-packaging colour wax/resin | | | | | | | | | | | | | | | |
| R300 Red | General purpose colour resin | | | | | | | | | | | | | | | |
| R410D-White | Ultra opaque white resin | | | | | | | | | | | | | | | |
| R510C | Ultra durable colour resin | | | | | | | | | | | | | | | |
| R510W | Durable white resin | | | | | | | | | | | | | | | |
| TR3370 | High opacity white resin | | | | | | | | | | | | | | | |
| VR301 | Durable metallic colour resin | | | | | | | | | | | | | | | |
| R395 | Textile resin | | | | | | | | | | | | | | | |
| UV transparent resin | | | | | | | | | | | | | | | | |
| UV black resin | | | | | | | | | | | | | | | | |
| Hologram resin | | | | | | | | | | | | | | | | |
| Scratch-off resin | | | | | | | | | | | | | | | | |
| Sintering resin | | | | | | | | | | | | | | | | |



FLAT-HEAD WAX

DNP

TR4085PLUS®

RESIN ENHANCED WAX

ALL-ROUND WAX RIBBON FOR VARIOUS LABEL MATERIALS TO MINIMISE PRINT PRODUCTION CHANGE-OVERS

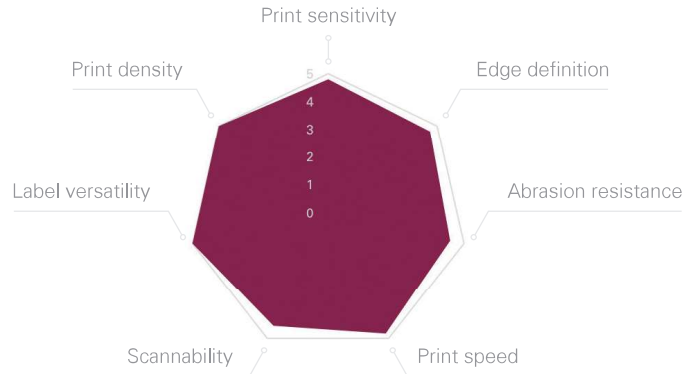
Performance characteristics

- High printing speed
- Excellent optical density (Macbeth)
- Abrasion and smudge resistance
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|----------------------|
| Ink | Wax (resin enhanced) |
| Colour | Black |
| Total thickness | 8.0 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.2 ± 0.2µm |

Spider diagram features TR4085plus®



Recommended industries



Food & beverage



Health & beauty



Inventory & logistics



Pharma & healthcare



Electronics



Retail

Recommended substrates

| Paper | Performance |
|----------------|-------------|
| Vellum | ● ● ● |
| Uncoated paper | ● ● ● |
| Coated paper | ● ● ● |

| Economic synthetics | Performance |
|---------------------|-------------|
| Polypropylene | ● ● ○ |
| Polyethylene | ● ● ○ |
| Polyester | ● ● ○ |

MP WAX

STANDARD WAX

ECONOMY WAX FOR LOW-END APPLICATIONS

Performance characteristics

- Excellent optical density (Macbeth)
- High printing speed
- Abrasion and smudge resistance
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax |
| Colour | Black |
| Total thickness | 7.8 ± 0.6µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.0 ± 0.3µm |

Recommended industries



Food &
beverage



Inventory &
logistics



Retail

Recommended substrates

Find out the recommended substrates for each ribbon

on pages 6/7

A high-magnification, grayscale micrograph showing a complex, layered structure of a flat-head wax/resin. The structure consists of multiple parallel, slightly curved layers that create a textured, almost crystalline appearance. The layers are separated by thin, darker lines, and the overall composition is dominated by diagonal and horizontal lines. A large, semi-transparent brown circle is overlaid on the center of the image, containing white text.

**FLAT-HEAD
WAX/RESIN**

DNP

M255

PREMIUM WAX/RESIN

ALL-ROUND WAX/RESIN RIBBON FOR MANY DIFFERENT LABELS TO MINIMISE PRINT PRODUCTION CHANGE-OVERS

Performance characteristics

- High printing speed
- High print sensitivity
- Good heat resistance
- Excellent optical density (Macbeth)
- Broad print range
- High scannability
- Good chemical resistance
- Abrasion & smudge resistance
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax/Resin |
| Colour | Black |
| Total thickness | 8.3 ± 0.3µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.1 ± 0.2µm |

Recommended industries



Food & beverage



Health & beauty



Inventory & logistics



Pharma & healthcare

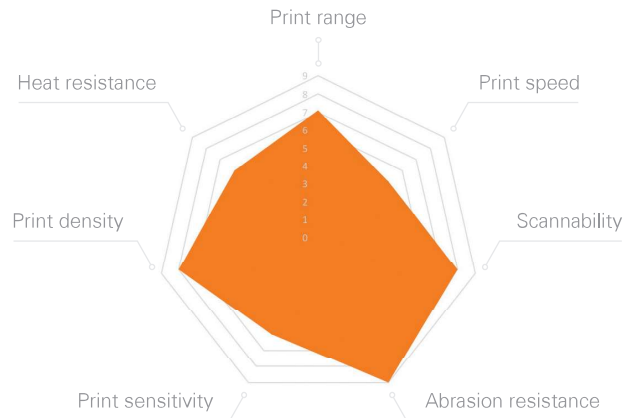


Outdoor



Retail

Spider diagram features M255



Recommended substrates

| Paper | Compatibility |
|----------------|---------------|
| Vellum | ● ● ● |
| Uncoated paper | ● ● ● |
| Coated paper | ● ● ● |

| Economic synthetics | Compatibility |
|---------------------|---------------|
| Polypropylene | ● ● ○ |
| Polyethylene | ● ● ○ |
| Polyester | ● ● ○ |

TR5080

SPECIALTY WAX/RESIN

ENTRY-LEVEL WAX/RESIN RIBBON FOR MANY DIFFERENT TYPES OF LABEL SUBSTRATES

Performance characteristics

- Ideal for printing on spot-coated and flood-coated labels
- Eliminates the cost of special varnishes
- Excellent edge definition for dark, dense images (400 dpi+) and improved scan rates
- Prints at high printing speeds (12 IPS) delivering crisp, rotated barcodes
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax/Resin |
| Colour | Black |
| Total thickness | 8.0 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.2 ± 0.2µm |

Recommended industries



TR6080

HIGH PERFORMANCE WAX/RESIN

HIGH-SPEED PRINTABLE WAX/RESIN RIBBON FOR ENHANCED EFFICIENCY

Performance characteristics

- Prints on a wide variety of substrates from rough label stocks to high-gloss paper
- Prints at high printing speeds (up to 12 IPS)
- Medium heat resistant
- Excellent edge definition for dark, dense images and improved scan rates
- Enhanced abrasion & smudge resistance
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax/Resin |
| Colour | Black |
| Total thickness | 8.2 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.4 ± 0.2µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7

M265

ULTRA DURABLE WAX/RESIN

HIGH-END WAX/RESIN IDEAL FOR USAGE ON PREPRINTED LABELS OFFERING HIGH ABRASION AND HEAT RESISTANCE

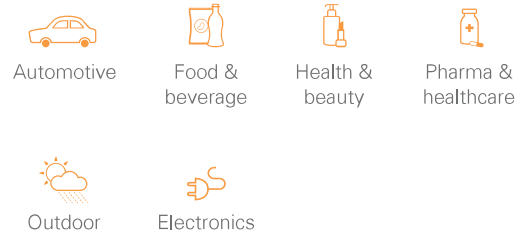
Performance characteristics

- Extreme abrasion resistance
- Extreme temperature resistance
- Prints up to 12 IPS
- Combines the print sensitivity of a wax/resin with the resistance of resins
- Prints both on flat-head and near-edge printers
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax/Resin |
| Colour | Black |
| Total thickness | 6.2 ± 0.6µm |
| Base film thickness | 4.5 ± 0.5µm |
| Ink thickness | 1.6 ± 0.5µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7



FLAT-HEAD RESIN

DNP

V300

VERSATILITY DEFINED RESIN

THE MOST VERSATILE RESIN PRINTING ON A WIDE VARIETY OF SUBSTRATES WHILE MAINTAINING HIGH DURABILITY

Performance characteristics

- High substrate versatility
- High print sensitivity
- Wide print range
- Outstanding chemical durability such as IPA, ethanol, oil
- Excellent blocking resistance allowing for no issues with ink transferring to the back coating
- High abrasion resistance
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|--------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 5.8 ± 0.8 µm |
| Base film thickness | 4.5 ± 0.4 µm |
| Ink thickness | 1.3 ± 0.4 µm |

Recommended industries



Automotive



Food & beverage



Health & beauty



Pharma & healthcare



Outdoor



Chemicals



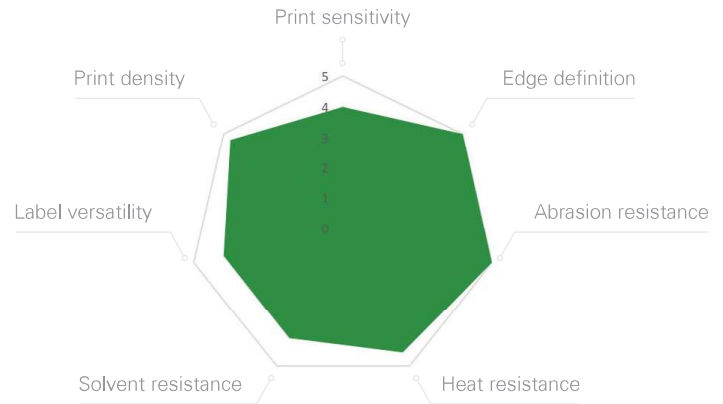
Electronics

Recommended substrates

| Paper | |
|----------------|-------|
| Vellum | ● ● ○ |
| Uncoated paper | ● ● ○ |
| Coated paper | ● ● ● |

| Economic synthetics | |
|---------------------|-------|
| Polypropylene | ● ● ● |
| Polyethylene | ● ● ● |
| Polyester | ● ● ● |

Spider diagram features V300



R300

GENERAL PURPOSE RESIN

ALL-ROUND RESIN FOR LASTING AND RESISTANT PRINT IN DEMANDING APPLICATIONS

Performance characteristics

- Heat resistance up to 199°C
- Excellent print quality at high printing speeds using less print energy
- Extreme durability and chemical resistance
- Very economical resin with DNP's unmatched abrasion resistance
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 6.0 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.2 ± 0.2µm |

Recommended industries



R316

HEAT RESISTANT RESIN

EXTREMELY HEAT DURABLE RESIN PARTICULARLY IDEAL FOR AUTOCLAVE APPLICATIONS

Performance characteristics

- Heat resistance up to 220°C
- Industry leading in edge definition for clean, optical density (Macbeth)
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 7.8 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.0 ± 0.2µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7

R510^(HF)

ULTRA DURABLE RESIN

HIGH DURABILITY RESIN DESIGNED FOR HARSH ENVIRONMENTS OFFERING HIGH CHEMICAL SOLVENT RESISTANCE

Performance characteristics

- Heat resistant up to 250°C
- Unique solvent resistance
- Excellent optical density (Macbeth) ensuring edge definition
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 7.5 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 2.7 ± 0.2µm |

Recommended industries



R550

EXTREMELY DURABLE RESIN

PREMIUM RESIN FOR HIGH CHEMICAL AND HEAT RESISTANT APPLICATIONS

Performance characteristics

- Heat resistance up to a continuous temperature of 300°C
- Unique high abrasion and solvent resistance
- Excellent edge definition for dark, dense images and improved scan rates
- Excellent optical density (Macbeth) printing ensuring edge definition
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 6.5 ± 0.8µm |
| Base film thickness | 4.5 ± 0.4µm |
| Ink thickness | 2.0 ± 0.5µm |

Recommended industries



TR7541

BOILING RESISTANT RESIN

RESIN RIBBON RESISTANT TO BOILING WATER FOR FOOD & BEVERAGE APPLICATIONS

Performance characteristics

- High boiling durability
- Prints on extremely smooth labels
- Grease resistant
- Abrasion resistant
- Suitable for flat-head and near-edge printers
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 6.6 ± 0.8µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.8 ± 0.5µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7



**NEAR-EDGE
WAX/RESIN**

DNP

M295HD

HIGH DENSITY PRINT-ON-PACKAGING WAX/RESIN

DROP-IN COMPATIBLE, HIGH SPEED PRINTING WAX/RESIN FOR FLEXIBLE PACKAGING APPLICATIONS

Performance characteristics

- Extremely high print speeds up to 32 IPS (800 mm per second)
- High image density at standard heat settings
- Excellent rub resistance against oil and grease
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax/Resin |
| Colour | Black |
| Total thickness | 6.3 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.5 ± 0.2µm |

Recommended industries



Food & beverage



Health & beauty

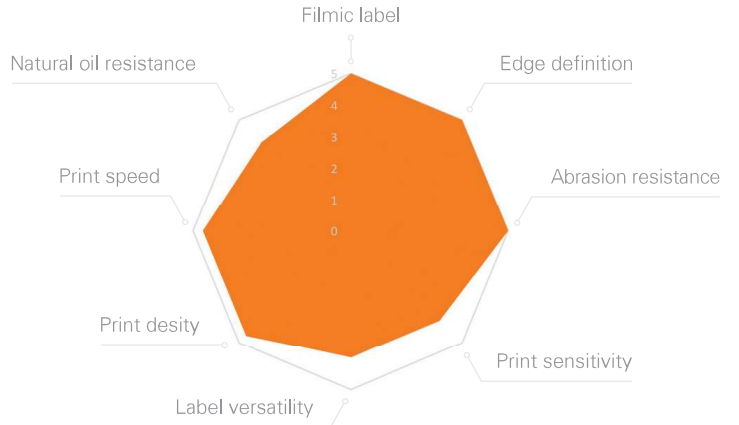


Pharma & healthcare



Retail

Spider diagram features M295HD



Recommended substrates

| Paper | |
|----------------|-------|
| Vellum | ○ ○ ○ |
| Uncoated paper | ○ ○ ○ |
| Coated paper | ● ● ○ |

| Economic synthetics | |
|---------------------|-------|
| Polypropylene | ● ● ● |
| Polyethylene | ● ● ● |
| Polyester | ● ● ● |

TR4500

PREMIUM WAX/RESIN

EASILY PRINTABLE NEAR-EDGE WAX-RESIN RIBBON FOR ROUGH AND SMOOTH MATERIALS

Performance characteristics

- Excellent edge definition for dark, dense images and improved scan rates
- Prints excellent images on a wide variety of label and tag stocks
- Anti-static back coating for easy handling and extended printhead life
- Halogen-Free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax/Resin |
| Colour | Black |
| Total thickness | 8.2 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.4 ± 0.2µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon

on pages 6/7

R390

GENERAL PURPOSE RESIN

ALL-ROUND NEAR-EDGE RESIN OFFERING HIGH HEAT AND SOLVENT RESISTANCE

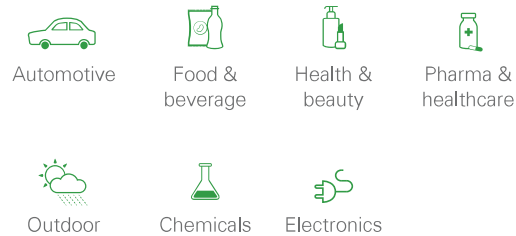
Performance characteristics

- Excellent print quality at high printing speeds
- Increased durability across a wide range of resin applications
- High substrate versatility
- Excellent edge definition for dark, dense images and improved scan rates
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 6.0 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.2 ± 0.2µm |

Recommended industries



R396

HIGH SPEED DURABLE RESIN

EASY- TO-PRINT, HIGH-SPEED COMPATIBLE RESIN FOR DURABLE FLEXIBLE PACKAGING APPLICATIONS

Performance characteristics

- Extremely high print speeds up to 26 IPS (660mm per second)
- Excellent edge definition for dark, dense images and improved scan rates
- Abrasion & smudge resistance resistance
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|--------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 5.45 ± 0.9µm |
| Base film thickness | 4.0 ± 0.5µm |
| Ink thickness | 1.45 ± 0.4µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon

on pages 6/7



COLOUR WAX

DNP

TR3020

TRANSPARENT WAX

SPECIALTY WAX FOR MAKING ROUGH SURFACES THERMAL TRANSFER PRINTABLE OR LAMINATING PRINT FOR EXTRA PROTECTION

Performance characteristics

- Improves the resistance of printed images
- Prints up to 12 IPS
- Can improve the smoothness and printability of label materials
- Halogen-Free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Wax |
| Colour | Transparent |
| Total thickness | 8.2 ± 0.9µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.4 ± 0.6µm |

Recommended industries



TR3021, 22, 23

GENERAL PURPOSE COLOUR WAX

ALL-ROUND COLOUR WAX SPECIALTY APPLICATIONS

Performance characteristics

- Provides excellent print clarity and is highly smudge resistant
- Prints at high printing speeds (12 IPS) delivering crisp, rotated bar codes
- Excellent edge definition for dark, dense images and improved scan rates
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free (TR3022 Blue)

Technical Product Information

| | |
|---------------------|---|
| Ink | Wax |
| Colour | Red, Blue, Green    |
| Total thickness | 8.4 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 3.6 ± 0.2µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon

on pages 6/7



**COLOUR
WAX/RESIN**

DNP

M295C

PRINT ON PACKAGING COLOUR WAX/RESIN

SPECIALTY COLOURED NEAR-EDGE WAX/RESIN FOR HIGH SPEED PRINTABILITY ON FLEXIBLE PACKAGING

Performance characteristics

- Extremely high print speeds up to 20 IPS (508mm per second)
- Excellent edge definition for dark, dense images and improved scan rates
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | | |
|---------------------|----------------------|-------------|
| Ink | Wax/Resin | |
| Colour | Silver, Bright White | |
| | ● | |
| Total thickness | Silver | 6.1 ± 1.0µm |
| | Bright White | 7.5 ± 1.3µm |
| Base film thickness | 4.5 ± 0.5µm | |
| Ink thickness | Silver | 1.6 ± 0.5µm |
| | Bright White | 3.0 ± 0.8µm |

Recommended industries



Food & beverage



Health & beauty



Pharma & healthcare



Retail

Recommended substrates

Find out the recommended substrates for each ribbon

on pages 6/7



COLOUR RESIN

DNP

R300 RED

GENERAL PURPOSE COLOUR RESIN

SPECIALTY COLOUR RESIN FOR SYNTHETIC LABEL PRINTING APPLICATIONS REQUIRING DURABILITY

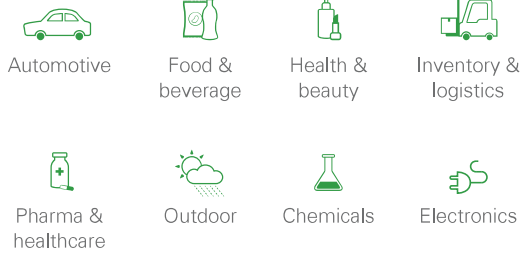
Performance characteristics

- Excellent print quality at high speeds using less print energy
- Extreme durability and chemical resistance
- Extensive substrate versatility expanding application options
- Unbeatable edge definition for red, dense images and improved scan rates
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|---|
| Ink | Resin |
| Colour | Red |
| |  |
| Total thickness | 6.0 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.2 ± 0.2µm |

Recommended industries



R410D-WHITE

ULTRA OPAQUE WHITE RESIN

DOUBLE LAYER WHITE RESIN DESIGNED FOR DARK MATERIAL PRINTING FOR HIGH DURABILITY APPLICATIONS

Performance characteristics

- Excellent optical density (Macbeth)
- Excellent opacity
- Excellent scratch resistance
- Good solvent resistance
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|--------------|
| Ink | Resin |
| Colour | White |
| Total thickness | 11.2 ± 1.0µm |
| Base film thickness | 4.8 ± 0.3µm |
| Coated layers | 6.4 ± 0.7µm |

Recommended industries



R510C

ULTRA DURABLE COLOUR RESIN

SPECIALTY COLOUR RESIN FOR APPLICATIONS EXPOSED TO DEMANDING ENVIRONMENTS

Performance characteristics

- High solvent durability
- Excellent optical density (Macbeth) printing ensuring high edge definition
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

Colour: Red, Blue, Green, Matte Silver,



Yellow, Orange, Deep Blue, Deep Green



Recommended industries



Automotive



Inventory & logistics



Chemicals



Electronics

R510W

DURABLE WHITE RESIN

SINGLE LAYER WHITE RESIN DESIGNED FOR DARK MATERIAL PRINTING FOR HIGH DURABILITY APPLICATIONS

Performance characteristics

- Industry leading in edge definition for clean, durable, and dense bar codes
- Resistance to ethanol and isopropanol
- Abrasion and smudge resistance
- Anti-static back coating for easy handling and extended printhead life
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | White |
| Total thickness | 9.3 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink Thickness | 4.5 ± 0.2µm |

Recommended industries



Food & beverage



Inventory & logistics



Retail



Chemicals



Electronics

Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7

TR3370

HIGH OPACITY WHITE RESIN

WHITE OPAQUE RESIN DESIGNED FOR DARK MATERIAL PRINTING FOR HIGH DURABILITY APPLICATIONS

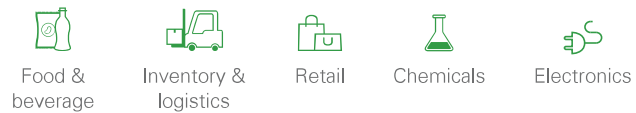
Performance characteristics

- An opaque ribbon that prints well on black, clear, and silver synthetic substrates
- Specially formulated for shrink tubing applications
- Resistant to ethanol and isopropanol
- Abrasion and smudge resistance
- Anti-static back coating for easy handling and extended printhead life
- Halogen-Free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | White |
| Total thickness | 9.6 ± 0.5µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 4.8 ± 0.2µm |

Recommended industries



VR301



DURABLE METALLIC COLOUR RESIN

SPECIALTY METALLIC RESIN FOR SMOOTH SURFACES REQUIRING HEAT AND CHEMICAL SOLVENT RESISTANCE

Performance characteristics

- Abrasion and smudge resistance
- Excellent optical density (Macbeth)
- Solvent resistance
- Anti-static back coating for easy handling and extended printhead life

Technical Product Information

| | |
|---------------------|--|
| Ink | Resin |
| Colour | Metallic gold or silver   |
| Total thickness | 7.15 ± 0.7µm |
| Base film thickness | 5.7 ± 0.3µm |
| Ink thickness | 1.45 ± 0.4µm |

Recommended industries



Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7



SPECIALTY RESIN

DNP

R395

TEXTILE RESIN

ESPECIALLY DESIGNED FOR CARE FABRIC APPLICATIONS REQUIRING HEAT, WATER AND STEAM RESISTANCE

Performance characteristics

- Dry clean and laundry safe
- Heat and steam resistance
- Water resistance
- Abrasion & smudge resistance
- Printable on both flat head and near edge printers
- Halogen-free

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 6.3 ± 0.5µm |
| Base film thickness | 4.5 ± 0.5µm |
| Ink thickness | 1.8 ± 0.5µm |

Recommended industries



Retail

UV TRANSPARENT RESIN

UNIQUE R300 FORMULATION-BASED HIGHLY DURABLE CLEAR RESIN FOR ANTI-COUNTERFEIT APPLICATIONS

Performance characteristics

- Print glows under UV-blacklight
- Good compatibility with filmic labels or cards
- Printable on glossy paper
- Printable on Flat Head & Near Edge printers

Special storage conditions

Avoid any light (both sunlight and electric light) as much as possible

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Transparent |
| Total thickness | 6.2 ± 0.8µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.4 ± 0.5µm |
| Light wave length | 365 nm |

Recommended industries



Automotive



Retail



Electronics

UV BLACK RESIN

UNIQUE R550 FORMULATION-BASED HIGHLY DURABLE ULTRA VIOLET BLACK RESIN FOR ANTI-COUNTERFEIT APPLICATIONS

Performance characteristics

- Print glows under UV-blacklight
- Heat resistant up to 250°C
- High abrasion and solvent resistance
- Excellent edge definition for dark, dense images and improved scan rates
- Anti-static back coating for easy handling and extended printhead life

Special storage conditions

Avoid any light (both sunlight and electric light) as much as possible

Technical Product Information

| | |
|---------------------|-------------|
| Ink | Resin |
| Colour | Black |
| Total thickness | 6.5 ± 0.8µm |
| Base film thickness | 4.8 ± 0.3µm |
| Ink thickness | 1.7 ± 0.5µm |

Recommended industries



Automotive



Retail



Electronics

HOLOGRAM RESIN

SPECIALTY RESIN RIBBON FOR ANTI-COUNTERFEIT PURPOSES FOR HIGHLY DURABLE APPLICATION

Technical Product Information

| | |
|---------------------|---------------------|
| Ink | Resin |
| Colour | Rainbow, large dots |
| Total thickness | 7.4 ± 0.8µm |
| Base film thickness | 6.0 ± 0.4µm |
| Ink thickness | 1.3 ± 0.5µm |

Recommended substrates

Find out the recommended substrates for each ribbon on pages 6/7

SINTERING RESIN

SPECIALTY SINTERING RIBBON FOR EXTREME HEAT RESISTANCE OF UP TO 1200°C AFTER HAVING GONE THROUGH THE SINTERING PROCES

Technical Product Information

| | |
|---------------------|--------------|
| Ink | Special |
| Colour | Black |
| Total thickness | 10.1 ± 1.6µm |
| Base film thickness | 4.65 ± 0.4µm |
| Ink thickness | 5.45 ± 1.2µm |

SCRATCH-OFF RESIN

EASY TO SCRATCH OFF RESIN RIBBON FOR SPECIALTY APPLICATIONS LIKE LOTTERY TICKETS AND GIFT CARDS

Technical Product Information

| | |
|---------------------|-----------------|
| Ink | Special |
| Colour | Black on silver |
| | ● |
| Total thickness | 10.1 ± 1.6µm |
| Base film thickness | 6.0 ± 0.5µm |
| Ink thickness | 4.45 ± 1.0µm |

Recommended substrates

Find out the recommended substrates for each ribbon

on pages 6/7

PURCHASING GUIDE

Request a free sample

Are you interested in trying out one of our thermal transfer ribbons? You can request a free sample via email or the following QR code below.



Order DNP thermal transfer ribbons

Are you a first-time customer and you wish to send in an order to us? You can send your request to sales@dnp.imgcomm.eu and one of our sales representatives will get in touch with you regarding your order.

Buy stock items via the Blue Book Programme

Is lead time a key factor for you? With our Blue Book Programme orders received before 12 o'clock are shipped out the same day! The Blue Book Programme contains standard qualities and size specifications. You can find a list of our Blue Book items on our website here:

eu.dnpribbons.com/products/blue-book
or by following the QR code below.



How to order from Blue Book?

- 1 Place an order before 12 o'clock (GMT +2:00) for same day shipment.
- 2 Send your Blue Book order in a separate e-mail from your made-to-order request.
- 3 Your products will be prepared and shipped out that day.

Please note that delivery costs may vary per country. In case you would like your order to be sent by drop shipment an additional cost of €20 per delivery applies.

Consult with our industry experts

Do you still have unanswered questions? Get in touch with your designated Area Sales Manager, call our general sales line (+31 23 553 3060) to talk to one of our knowledgeable specialists or send us an email to sales@dnp.imgcomm.eu.

Supplied via resellers, DNP partner distributors and OEM's

DNP thermal transfer ribbons are available for purchase via a network of partner distributors, OEM's and resellers. Should you be interested in becoming one of the aforementioned partners, please do not hesitate to contact us.

Are you a ribbon user yourself and would like to try out or purchase one of our DNP thermal transfer ribbons? Our team is ready to answer your questions and needs, to discuss your projects and, if required, point you to the most suitable DNP reseller.

COMPLIANCE

OVERVIEW

| Ribbon | Reach | ISO 9001 / 14001 / 18001 | RoHS | ISEGA | Halogen free | GHS / BS5609 | FDA (GRAS) | BPA-free | Conflict - mineral free | Latex-free | UL |
|--|-------|--------------------------|------|-------|--------------|--------------|------------|----------|-------------------------|------------|----|
| TR4085plus® Resin enhanced wax | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| MP Wax Standard wax | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| M255 Premium wax/resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| M265 Ultra durable wax/resin | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| TR5080 Specialty wax/resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| TR6080 High performance wax/resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| V300 Versatility Defined resin | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| R300 General purpose resin | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| R510 Ultra durable resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| R316 Heat resistant resin | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| R550 Extremely durable resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| TR7541 Boiling resistant resin (also NE) | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| M295HD High density print-on-packaging wax/resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| TR4500 Premium wax/resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| R390 General purpose resin | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| R396 High speed durable resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| TR3020 Transparent wax | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| TR302X General purpose colour wax | ✓ | ✓ | ✓ | | (Blue) | (Red) | ✓ | ✓ | ✓ | ✓ | |
| M295C Print-on-packaging colour wax/resin | ✓ | ✓ | ✓ | | (White) | | ✓ | ✓ | ✓ | ✓ | ✓ |
| R300 Red General purpose colour resin | | | | | | | | | | | |
| R410D-White Ultra opaque white resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| R510C Ultra durable colour resin | ✓ | ✓ | ✓ | | | ✓ (Red) | ✓ | ✓ | ✓ | ✓ | ✓* |
| R510W Durable white resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| TR3370 High opacity white resin | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| VR301 Durable metallic colour resin | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | |
| R395 Textile resin | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| UV transparent resin | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | |
| UV black resin | | | | | | | | | | | |
| Hologram resin | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | |
| Scratch-off resin | | | | | | | | | | | |
| Sintering resin | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | |

*Blue, Green, Red

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The information in this brochure was obtained in DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.