



# Collateral Library

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**DNP Global Locations**

- Americas
- Europe
- Japan
  
- China
- Oceania

DNP Imagingcomm America Corporation

1001 Technology Drive

Mount Pleasant, PA 15666

TEL: [+1 888.569.7222](tel:+18885697222)

FAX: +1 800.676.7669

EMAIL: [info@dnpiimgcomm.com](mailto:info@dnpiimgcomm.com)

Last Updated: 09/01/2017

# Contact Information



## DNP Imagingcomm America Corporation

1001 Technology Drive  
Mount Pleasant, PA 15666-1766  
United States

TEL: 1.888.569.7222 FAX: 1.800.676.7669

EMAIL: [info@dnpiimgcomm.com](mailto:info@dnpiimgcomm.com)

WEBSITE: [www.dnpiimgcomm.com](http://www.dnpiimgcomm.com)

## Customer Service

Our experienced Customer Development Specialists are available to assist you with product recommendations, pricing confirmations, e-commerce and website navigation, order issues, expediting emergency orders, and quality/application lab requests.

TEL: 1.888.569.7222, Option #2

EMAIL: [cdg@dnpiimgcomm.com](mailto:cdg@dnpiimgcomm.com)

## Marketing Support

Contact our Marketing Department for assistance with our website, video and collateral libraries, or any of our online tools.

TEL: 1.888.569.7222, Option #8

EMAIL: [info@dnpiimgcomm.com](mailto:info@dnpiimgcomm.com)

## Product Applications, Quality, and R&D

Call our laboratory experts for technical service support including: compatibility and durability testing,

chemical resistance testing, ribbon recommendations, troubleshooting, competitive ribbon substitutions, and more.

TEL: 1.855.NOW.4DNP (1.855.669.4367)

EMAIL: [applianceval@dnpiimgcomm.com](mailto:applianceval@dnpiimgcomm.com)

## Accounts Receivable Department

DNP's Tax Identification Number (TIN) is 62-1575799.

For questions about your invoice or payments, contact our A/R Department.

DNP Imagingcomm America Corporation  
4524 Enterprise Drive Northwest  
Concord, NC 28027

TEL: 704.784.7126 Fax: 704.784.7192

EMAIL: [ar@dnpiimgcomm.com](mailto:ar@dnpiimgcomm.com)



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# About Us



## DNP Imagingcomm America Corporation

**We make the world's premier thermal transfer ribbon right here in America.**

At DNP, we don't make thermal transfer ribbon, we craft it - with dedication, experience, the finest materials and stringent quality control. It's in our DNA. Over 25 years ago, DNP was one of the first companies to pioneer thermal transfer ribbon technology, and we've never stopped. If you think, "Blue leader, black ribbon, what's the difference?" The difference is DNP.

## Products

**We don't settle for "good enough." Neither should you.**

DNP offers a wide range of wax, wax/resin, and resin thermal transfer printer ribbons. We've got the TTR to meet any application need. We know our customers depend on our quality products and impeccable service, so we manufacture the world's finest thermal transfer ribbons, backed by the industry's fastest delivery. You have a lot of choices when it comes to TTR. That's why we craft performance, confidence, reliability and uptime into every roll. No shortcuts. No excuses. No compromises.

## Applications

**If there's an industry that uses a barcode, chances are they're using DNP.**

From automotive and chemicals to retail and security, our thermal transfer ribbons are being used in thousands of applications all over the world. Whatever your needs, we have the right TTR for the job. Abrasion, heat, solvent—we can take it. Paper, poly, vinyl—we can print on it. Durable, crisp, clean—we can perform. Go ahead, challenge us with your toughest application.

# Support & Resources

**We understand that choosing the right ribbon for the right application can often be a complex process.**

Every ribbon application has its own distinct set of variables, each requiring special attention. DNP's testing laboratory is known as the quickest and most responsive in the industry. With over 75 thermal transfer printers, additional testing equipment, and on-hand technical service support from our laboratory experts, we can have a solution to your problem within 24 hours.



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# Doing Business with DNP

We do our best to make doing business with DNP easy and uncomplicated. If you can't find an answer to your question here, please contact us at [info@dnp.imgcomm.com](mailto:info@dnp.imgcomm.com).

## Policies & Procedures

From ordering and payment information to our warranty and storage conditions, here is where you can find all the information you need to know about doing business with DNP.

[Quick Reference Guide](#)

[Quick Reference Guide Jumbo Roll](#)

[Return Policy](#)

[Warranty and Storage Conditions](#)



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# Quick Reference Guide

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## Contact Information

A Customer Development Representative (CDR) is assigned to each customer and is available Monday - Friday: 8:30am to 5:00pm (ET).

TEL: 1.888.569.7222 (press 2 for Customer Service, and follow the prompts)

EMAIL: [cdg@dnpiimgcomm.com](mailto:cdg@dnpiimgcomm.com)

## Order Information

You can utilize our [Perfect PO](#) or submit your own.

## Ordering Methods

- Email: [cdg@dnpiimgcomm.com](mailto:cdg@dnpiimgcomm.com)
- Online: [www.dnpinksider.com](http://www.dnpinksider.com)

## Shipping

DNP has four distribution centers located throughout the U.S. in Pennsylvania, California, Missouri, and North Carolina. Ask your CDR about "The Pittsburgh Promise."

### Lead Time Guidelines

Stock Type	Description	Order By (ET)	Lead Time* (Business Days)	Shipping From
Made to Stock (MTS)	Kept in stock	4:00 PM	Same-Day	California Missouri North Carolina

Made to Stock (MTS)	Kept in stock	5:00 PM	Same-Day	Pennsylvania
Bin (BIN)	Packaged per order	2:00 PM	Same-Day	All Locations
Made to Order (MTO)	Manufactured to order	4:00 PM	3 Days	All Locations
Custom (CUS)	Additional manufacturing time	4:00 PM	7 Days	All Locations

**\*Quantity restrictions apply**

## Payment Information

- DNP's Tax Identification Number (TIN) is 62-1575799.
- Invoices are sent electronically the business day following shipment. For prompt delivery, please provide DNP with a current email address.
- Standard payment terms are net 30 days.
- Remittance address:

DNP Imagingcomm America Corporation  
PO Box 281011  
Atlanta, GA 30384



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# Quick Reference Guide



## Return Policy

### Non-Quality Returns

DNP's return policy for non-quality reasons applies to product returns that occur within 90 days of the invoice date. Returns beyond 90 days of the invoice date will not be accepted.

#### **DNP Blue Leader or Signature Series**

Returns of full cases will be accepted as follows:

- Stock (BIN or MTS) items will be assessed at 15% restocking fee.
- Non-stock (MTO) items may be returned if we can resell them. If accepted, returns will be assessed a 50% restocking fee.

Note that our stocking distinctions may change. Therefore, the restocking fee will be determined per the stocking status at the time of return.

***Due to the labor involved with restocking, fees cannot be reduced or waived.***

#### **Custom (CUS)**

- These items are specially manufactured and exclusive to the customer; therefore, returns are not accepted.

If you have any questions, please contact Customer Service at 888-569-7222.

### Quality Returns

Returns for reasons of quality will be considered if brought to DNP's attention within one year of the invoice date.

If you believe you have received an incorrect or defective product:

- Contact Customer Service at 888-569-7222 to begin the return process. You will be given an RMA number and asked to return any suspect product, along with a sample of the media (printed and unprinted) to:

DNP Imagingcomm America Corporation

REF: (RMA#)

1001 Technology Drive

Dock 29J

Mount Pleasant, PA 15666

**If your claim is justified, a full refund will be credited to your account.**



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# Halogen-Free

Products



## Why choose halogen-free ribbons?

- Better for the environment
- Increase fire safety with lower smoke toxicity
- Reduce damage from fires by preventing corrosion of electronics
- Ensure compliance with environmental and "green product" initiatives

We understand the impact halogen containing products have on the electronics industry, and therefore, the thermal transfer ribbon industry. Our formulations are continually modified so they stay current with market demands.

## DNP's halogen-free ribbons:

### Wax

- MP Wax
- TR3022 General Purpose Blue Wax
- TR4085plus® Premium Resin-Enhanced Wax

### Wax/Resin

- M260 Ultra Durable Wax/Resin
- TRX-50 General Purpose Wax/Resin
- TRX-55 Premium Wax/Resin

### Resin

- R395 Textile Resin
- R510<sup>HF</sup> Ultra Durable Resin
- R510W Durable White Resin
- TR3370 High Opacity White Resin
- TR4070 Classic Resin

## Near Edge

- M295C Specialty Near Edge Color Wax/Resin
- M295HD High Density Near Edge Wax/Resin
- R396 High Speed Durable Near Edge Resin
- TR4500 Premium Near Edge Wax/Resin

**The next time you need a thermal transfer ribbon, think green, and try one of our halogen-free ribbons.**



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# Near Edge Products

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**M295 Plus Specialty Near Edge Wax/Resin** is the next generation of near edge ribbon for the flexible packaging industry. This specially designed ribbon prints at speeds up to 26 IPS (660mm per second) making it extremely desirable for high-speed flexible packaging applications. M295 Plus adheres to a variety of substrates resulting in remarkable durability and amazing image density that creates crisp, black images. With our exclusive backcoat technology and anti-static properties for maximum printhead protection, M295 Plus is the ideal choice for a full range of flexible packaging applications.

Recommended Applications



Recommended Substrates - nylon, polyester, polyethylene, polyolefin, polypropylene

**M295C Specialty Near Edge Wax/Resin Color** prints at speeds up to 20 IPS (508mm per second), making it ideal for flexible packaging applications where speed is critical in the manufacturing process. With our exclusive backcoat technology and antistatic properties for maximum printhead protection, it offers durability and clear images for thermal transfer overprinting on prime retail packaging applications. Available in silver and bright white, M295C is widely acknowledged for its opacity, which provides dramatically visible printed images onto multi-colored prime retail packages.

Recommended Applications



Recommended Substrates - nylon, polyester, polyethylene, polyolefin, polypropylene

**R390 Near Edge Resin** is exceptionally versatile on a wide variety of substrates, this resin also prints at extremely high speeds for faster turnaround. It outperforms the competition in abrasion and solvent resistance, contains a specially formulated backcoat, and has exclusive anti-static properties for superior printhead protection.

Recommended Applications



Recommended Substrates - Kimdura®, Polyart®, polyester, polyethylene, polyolefin, polypropylene, PVC card, synthetic paper, Valeron®, vinyl



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# GHS-BS5609

Solution



## We have your GHS solution.

GHS compliance went into effect June 2015. What does that mean?

- GHS is a global initiative designed to make hazardous chemical labels universally recognizable by using a standardized format.
- All chemical drums being used in maritime environments must adhere to a new standardized label design.
  - Red and black ink must be used along with specific hazard icons.
  - The ink and label combination must be BS5609 approved.

Our black and red ribbons perform in the harshest maritime environments and are BS5609 certified and GHS compliant.

### BS5609 approved ribbon/label combinations:

Label Mfg	Label Material	Label Product #	Approved Ribbons
Neeah	Kimdura TT Ultra Synthetic Paper	5786PO	TR3021 Red Wax
			TRX-55 Black Wax/Resin
FLEXcon	2.3 mil White Polypropylene	DRUMcal 51932	R300 Black Resin
			R510C Red Resin
MACTac®	2.0 mil White Polyester	FCD6914	R300 Black Resin
			R510C Red Resin



**1. Product Identifier** - means by which the product user can identify the chemicals substances or mixture. **2. Signal Word** - word to indicate relative severity of hazard use "Danger" (severe) or "Warning" less severe. **3. Hazard Statements** - phrase assigned to each hazard category that describes the nature of the hazard. **4. Precautionary Statements** - describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure. **5. Supplier Identification** - name, address, and phone number of the manufacturer or supplier. **6. Pictograms** - visual symbol denoting a particular hazard class.



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# Halogen

The Facts



## What are halogens?

Halogens are the family of chemical elements that include: fluorine (F), chlorine (Cl), bromine (Br), iodine (I), and astatine (At).

## Why is it important for me to understand halogens?

Halogenated compounds are the materials of choice today for cabling insulation and electric components due to:

- Abundance of raw materials on the market
- Relatively low material costs
- Desirable product properties

Environmental groups are pushing to remove potentially toxic compounds from products, driving the electronics industry to exclude halogens from electronics manufacturing.

Items used in electronics manufacturing that may be labeled with barcodes include: films, connectors, adhesives, electronics components, poly vinyl chloride (PVC), cables, vibration dampening parts, mechanical plastic parts, and printed circuit boards.

## Why is halogen-free important?

While halogens do not cause harm to humans or the environment in the form contained in electronics, they can be harmful during a fire involving electronics or after disposal of electronic equipment.

## Fire

- Releases toxins that can be harmful to people
- Releases corrosives that can damage electronics

**Disposal** (incineration at the end of a product's life)

- Releases dioxins and furans (highly toxic compounds that are environmental pollutants and carcinogenic) into the environment
- Dioxins and furans have been shown to be present in increasing levels in soil, ground water, and humans
- Uncontrollable disposal in developing countries

We understand the impact halogen containing products have on the electronics industry, and therefore, the thermal transfer ribbon industry. We continue to modify our formulations so they stay current with market demands.



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# Monarch Cores

Overview



## **DNP has a solution for your textile and garment tag labeling applications**

Monarch printers are heavily employed in the textile and garment industries. They use center-justified substrates and thermal transfer ribbons to print care labels.

Until now, the only ribbon solution was to center-justify film on a full-width 110mm core. This method of manufacturing presents a problem, as 64mm(2.5") is the narrowest slit width, while common care tag labels range from just 1"-2."

DNP is pleased to offer new variable-width cores for Monarch 9800 Series printers. This includes narrower widths of 40mm and 55mm.

Our new cores eliminate the need to center-justify the ribbon on a core, and allow us to slit the most common sizes in the garment tag market.

This solution removes the possibility of slitting off-center ribbons, which causes problems when using center-justified labels. And, our new cores eliminate ribbon telescoping caused during manufacturing, shipping, and storage.

## **Monarch cores...another reason to partner with DNP.**



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# Product Lines

## Thermal Transfer Ribbons

If you are trying to locate the ideal thermal transfer product for an application, you have come to the right place.

This library will help you quickly discover the best thermal transfer ribbon for your application.

### Wax

DNP's popular all purpose ribbons offer broad performance characteristics to deliver the image quality and durability required for most applications, while providing an excellent total cost solution. They are well-suited to print on coated/uncoated paper tags and labels, as well as low-end synthetics.



Half Inch

MP Wax

TR3021 Red

TR3022 Blue

TR3023 Green

TR4035 General Purpose

TR4055® Standard

TR4085plus® Premium Resin-Enhanced

TR6080 Resin-Enhanced

JR3020 Wax

### Wax/Resin

Premium wax/resin ribbons produce excellent results across a wide range of media providing superb performance in various applications. Wax/resin ribbons are versatile all-purpose ribbons that provide durability and resistance, and are the perfect choice for demanding applications such as outdoor and

automotive.



M260 Ultra Durable

TRX-50 General Purpose

TRX-55 Premium

TR5050 High Performance Wax/Resin

## Resin

Resin ribbons deliver superior images and durability for applications requiring special performance characteristics such as resistance to extreme environmental conditions, harsh chemicals, and scratching. They provide excellent print quality at high speeds using less energy and are considered the best in the market.



R300 General Purpose

R316 Specialty

R350 Permanent Care

R395 Textile

R510C Durable Color

R510HF Ultra Durable

R510W Durable White

R550 Extreme Durable

R600 Specialty

TR3370 High Opacity White

TR4070 Classic

VR301 Durable Metallic Color

OP Resin

## Near Edge

Near edge ribbons are the perfect solution for flexible packaging applications such as snack foods, beverages, produce, healthcare, parts packaging, and more. When speed, durability, and performance are expected, near edge ribbons fulfill the requirements of producing crisp, dark images with printing speeds up to of 26 IPS.



M295 Plus Specialty Wax/Resin

M295C Specialty Wax/Resin Color

M295HD High Density Wax/Resin

R390 Resin

R396 High Speed Durable Resin

TR4500 Premium Wax/Resin

Last Updated: 09/01/2017

# Half Inch

Wax



## Product Description

Formulated specifically to function within the temperature and speed range of 1/2" printers, this ribbon provides uniform coverage on a variety of substrates. It also incorporates technology designed to control and dissipate static charges and a backcoat proven to protect your printhead.

## Recommended Applications



Chemicals



Compliance



Food & Beverage



Inventory &  
Logistics



Pharmaceutical



Retail

## Product Features

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**High-speed**

**Scratch Resistant**

**Smudge Resistant**



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# Half Inch

Wax

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

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## Recommended Substrates

**Paper** Coated Paper  
Coated Tag  
Uncoated Paper  
Uncoated Tag

## Ribbon Properties

**Ink** Wax  
**Color** Black  
**Base Film Thickness**  $4.8 \pm 0.3\mu$   
**Ink Thickness**  $3.0 \pm 0.2\mu$   
**Total Thickness**  $7.8 \pm 0.5\mu$   
**Ink Transfer Temperature** Uncoated Tag 67°C (152°F)



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# MP Wax



## Product Description

Specially formulated to print at a wide range of energy and speed settings, this wax provides an economical solution for everyday thermal transfer printing. It incorporates proven backcoat technology to protect your printhead. This wax product features a blend of ingredients that are combined in an ink that prints dark images and crisp, clean barcodes.

## Recommended Applications



Compliance



Inventory &  
Logistics



Retail

## Product Features

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**High-speed**

**Made in U.S.A.**

**Scratch Resistant**

**Smudge Resistant**



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- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

### Recommended Substrates

#### Paper

Coated Paper  
Coated Tag  
Uncoated Paper  
Uncoated Tag

## Ribbon Properties

<b>Ink</b>	Wax
<b>Color</b>	Black
<b>Base Film Thickness</b>	4.8 ± 0.3μ
<b>Ink Thickness</b>	3.0 ± 0.3μ
<b>Total Thickness</b>	7.8 ± 0.6μ
<b>Ink Transfer Temperature</b>	Uncoated Tag 67°C (152°F)



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# TR3021

General Purpose Red Wax



## Product Description

Based on our proven wax technology, these quality red ribbons expand your possibilities while providing excellent print clarity and high smudge resistance when black just isn't enough. These ribbons are also specially formulated with an exclusive backcoat technology for printhead protection.

## Standard Colors



Red PMS 1787C\*

Pantone® Matching System (PMS)

\*Colors may vary by substrate

## Recommended Applications



Compliance



Inventory &  
Logistics



Outdoor



Retail

## Product Features

**FDA (indirect food contact)**

**High-density**

**High-speed**

**Printhead Protection**

**Proprietary Backcoat**



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# TR3021

General Purpose Red Wax

## Product Specifications

### Wax

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- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

<b>Paper</b>	Coated Paper
	Coated Tag
	Uncoated Paper
	Uncoated Tag
<b>Economy Synthetics</b>	Polyethylene
	Polyolefin
	Polypropylene
	Synthetic Paper
<b>Specialty Materials</b>	Top-Coated Vinyl
	Tyvek®
	Tyvek Brillion®

## Ribbon Properties

<b>Ink</b>	Wax
<b>Color</b>	Red
<b>Base Film Thickness</b>	4.8 ± 0.3μ
<b>Ink Thickness</b>	3.6 ± 0.2μ
<b>Total Thickness</b>	8.4 ± 0.5μ
<b>Ink Transfer Temperature</b>	Uncoated Tag 79°C (175°F)



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Last Updated: 09/01/2017



# TR3022

General Purpose Blue Wax



## Product Description

Based on our proven wax technology, these quality blue ribbons expand your possibilities while providing excellent print clarity and high smudge resistance when black just isn't enough. These ribbons are also specially formulated with an exclusive backcoat technology for printhead protection.

## Standard Colors



Blue PMS 286C\*

Pantone® Matching System (PMS)

\*Colors may vary by substrate

## Recommended Applications



Compliance



Inventory &  
Logistics



Outdoor



Retail

## Product Features

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**Printhead Protection**

**Proprietary Backcoat**



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Last Updated: 09/01/2017

# TR3022

General Purpose Blue Wax

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

<b>Paper</b>	Coated Paper
	Coated Tag
	Uncoated Paper
<b>Economy Synthetics</b>	Uncoated Tag
	Polyethylene
	Polyolefin
	Polypropylene
	Synthetic Paper
<b>Specialty Materials</b>	Top-Coated Vinyl
	Tyvek®
	Tyvek Brillion®

## Ribbon Properties

<b>Ink</b>	Wax
<b>Color</b>	Blue
<b>Base Film Thickness</b>	4.8 ± 0.3µ
<b>Ink Thickness</b>	3.6 ± 0.2µ
<b>Total Thickness</b>	8.4 ± 0.5µ
<b>Ink Transfer Temperature</b>	Uncoated Tag 79°C (175°F)



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Last Updated: 09/01/2017

# TR3023

General Purpose Green Wax



## Product Description

Based on our proven wax technology, these quality green ribbons expand your possibilities while providing excellent print clarity and high smudge resistance when black just isn't enough. These ribbons are also specially formulated with an exclusive backcoat technology for printhead protection.

## Standard Colors



Green PMS 3405C\*

Pantone® Matching System (PMS)

\*Colors may vary by substrate

## Recommended Applications



Compliance



Inventory &  
Logistics



Outdoor



Retail

## Product Features

**FDA (indirect food contact)**

**High-speed**

**Printhead Protection**

**Proprietary Backcoat**

**Smudge Resistant**



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Last Updated: 09/01/2017

# TR3023

General Purpose Green Wax

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates



<b>Paper</b>	Coated Paper
	Coated Tag
	Uncoated Paper
	Uncoated Tag
<b>Economy Synthetics</b>	Polyethylene
	Polyolefin
	Polypropylene
	Synthetic Paper
<b>Specialty Materials</b>	Top-Coated Vinyl
	Tyvek®
	Tyvek Brillion®

## Ribbon Properties

<b>Ink</b>	Wax
<b>Color</b>	Green
<b>Base Film Thickness</b>	4.8 ± 0.3μ
<b>Ink Thickness</b>	3.6 ± 0.2μ
<b>Total Thickness</b>	8.4 ± 0.5μ
<b>Ink Transfer Temperature</b>	Uncoated Tag 79°C (175°F)



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Last Updated: 09/01/2017

# TR4085plus®

Premium Resin-Enhanced Wax



## Product Description

The industry's leading wax product since its introduction to the market in November 2000, this ribbon features a SmoothCoat® backcoat and a 4 Million Linear Inch Guarantee. This unique ink formulation dissipates static and is versatile enough to print on a wide variety of labelstocks.

## Recommended Applications



Compliance



Food & Beverage



Health & Beauty



Inventory &  
Logistics



Pharmaceutical



Retail

## Product Features

**4 Million Linear Inch Guarantee**

**Anti-static**

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**High-speed**

**Proprietary Backcoat**

**Scratch Resistant**

**Smudge Resistant**



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Last Updated: 09/01/2017

# TR4085plus®

Premium Resin-Enhanced Wax

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Paper**  
Coated Paper  
Coated Tag  
Flood-coated  
Gloss  
Uncoated Paper  
Uncoated Tag

**Economy Synthetics**  
Kindura®  
Polyart®  
Polyethylene  
Polyolefin  
Polypropylene  
Synthetic Paper  
UV Varnished Labels  
Valeron®

## Ribbon Properties

**Ink** Wax (resin-enhanced)  
**Color** Black  
**Base Film Thickness**  $4.8 \pm 0.3\mu$   
**Ink Thickness**  $3.2 \pm 0.2\mu$   
**Total Thickness**  $8.0 \pm 0.5\mu$   
**Ink Transfer Temperature** Uncoated Tag 66°C (150°F)



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Last Updated: 09/01/2017

# M260

Ultra Durable Wax/Resin



## Product Description

This ribbon prints on a broad range of label stocks, providing abrasion resistance and print sensitivity at speeds up to 12 IPS. It is perfect for printing long lasting images on coated tags, uncoated tags, and glossy print media. Designed with our specially formulated backcoat technology for printhead protection, this ribbon also contains exclusive anti-static properties for easier handling and extra printhead protection.

## Recommended Applications



Compliance



Food & Beverage



Health & Beauty



Inventory &  
Logistics



Outdoor



Pharmaceutical



Retail

## Product Features

**Abrasion Resistant**

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**High-speed**

**Printhead Protection**

**Proprietary Backcoat**

**Reduced Print Energy Use**

**Solvent Resistant**







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Last Updated: 09/01/2017

# M260

Ultra Durable Wax/Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

### Paper

Coated Paper  
Uncoated Paper

**Economy Synthetics** Kimdura®  
Polyart®  
Polyethylene  
Polyolefin  
Polypropylene  
Synthetic Paper  
Valeron®

## Ribbon Properties

**Ink** Wax/Resin  
**Color** Black  
**Base Film Thickness** 4.8 ± 0.3µ  
**Ink Thickness** 2.6 ± 0.2µ  
**Total Thickness** 7.4 ± 0.5µ  
**Ink Transfer Temperature** Uncoated Tag 79°C (174°F)



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Last Updated: 09/01/2017

# TRX-50

General Purpose Wax/Resin



## Product Description

Featuring our SmoothCoat® backcoat, this is the only wax/resin ribbon on the market backed by a 4 Million Linear Inch Guarantee. With a unique ink formulation that dissipates static, this ribbon is a versatile and durable wax/resin that has superior print quality on low-end synthetics. It also prints at low temperatures and high speeds, and has unbeatable edge definition with the darkest images possible from a general purpose ribbon.

## Recommended Applications



Compliance



Food & Beverage



Inventory &  
Logistics



Outdoor



Pharmaceutical



Retail

## Product Features

**4 Million Linear Inch Guarantee**

**Anti-static**

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**High-speed**

**Printhead Protection**

**Proprietary Backcoat**





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Last Updated: 09/01/2017

# TRX-50

General Purpose Wax/Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Paper**

Gloss

- Economy Synthetics**
  - Polyethylene
  - Polyolefin
  - Polypropylene
  - Coated V-max®
  - Uncoated V-max®
  - Coated Valeron®
  - Uncoated Valeron®
- Specialty Materials**
  - Polystyrene
  - Top-coated Vinyl
  - Tyvek®
  - Tyvek Brillion®

## Ribbon Properties

- Ink** Wax/Resin
- Color** Black
- Base Film Thickness** 4.8 ± 0.3µ
- Ink Thickness** 3.3 ± 0.2µ
- Total Thickness** 8.1 ± 0.5µ
- Ink Transfer Temperature** Uncoated Tag 85°C (185°F)



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Last Updated: 09/01/2017



# TRX-55

Premium Wax/Resin



## Product Description

This premium wax/resin formulation is designed to print on a wide variety of receiving materials, including coated and uncoated paper labels and tags, varnished label stock, and films. It offers excellent barcode scanning with sharp, reliable images at a wide variety of speeds. This is an extremely versatile all-purpose wax/resin that will out-perform other ribbons in extreme environments. Powerful resistance against smearing and chemicals makes this product a perfect choice for your demanding environments.

## Recommended Applications



Compliance



Food & Beverage



Health & Beauty



Inventory &  
Logistics



Outdoor



Pharmaceutical



Retail

## Product Features

**Anti-static**



**Chemical Resistant**



**FDA (indirect food contact)**



**Halogen-free**



**Printhead Protection**



**Smudge Resistant**



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Last Updated: 09/01/2017

# TRX-55

Premium Wax/Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

<b>Paper</b>	Coated Paper
	Coated Tag
	Gloss
	Uncoated Paper
<b>Economy Synthetics</b>	Uncoated Tag
	Polyethylene
	Polyolefin
	Polypropylene
<b>Specialty Materials</b>	Polystyrene
	Top-coated Vinyl
	Tyvek®
	Tyvek Brillion®

## Ribbon Properties

<b>Ink</b>	Wax/Resin
<b>Color</b>	Black
<b>Base Film Thickness</b>	4.8 ± 0.3µ
<b>Ink Thickness</b>	4.0 ± 0.2µ
<b>Total Thickness</b>	8.8 ± 0.5µ
<b>Ink Transfer Temperature</b>	Uncoated Tag 87°C (188°F)



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Last Updated: 09/01/2017

# R300

General Purpose Resin



## Product Description

With extensive label adaptability and high print speed capability, this resin is the most diverse of its kind. It outperforms the competition in abrasion and solvent resistance, uses less print energy, and is designed with our standard anti-static and backcoat properties to protect printheads and extend printhead life.

## Recommended Applications



Automotive



Chemicals



Compliance



Electronics



Food & Beverage



Inventory &  
Logistics



Outdoor



Pharmaceutical

## Product Features

**Abrasion Resistant**

**Anti-static**

**FDA (indirect food contact)**

**High-density**

**High-speed**

**Printhead Protection**

**Proprietary Backcoat**

**Reduced Print Energy Use**

**Solvent Resistant**



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Last Updated: 09/01/2017

# R300

General Purpose Resin

## Product Specification

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates



**Economy Synthetics** Polyester  
Polyethylene  
Polyolefin  
Polypropylene

**Specialty Materials** Vinyl

## Ribbon Properties

**Ink** Resin  
**Color** Black  
**Base Film Thickness**  $4.8 \pm 0.3\mu$   
**Ink Thickness**  $1.2 \pm 0.2\mu$   
**Total Thickness**  $6.0 \pm 0.5\mu$   
**Ink Transfer Temperature** Uncoated Tag 199°C (390°F)



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Last Updated: 09/01/2017

# R316

Specialty Resin



## Product Description

This resin is the best in the industry for printing on coated and synthetic paper substrates. It is also able to withstand environmental temperatures of up to 171°C (339°F). Using remarkably low print energy settings, this ribbon produces high quality barcodes and text. Designed with our standard anti-static and backcoat properties that protect the printhead, this ribbon produces clean, extremely durable and dense barcodes every time.

## Recommended Applications



Electronics



Health & Beauty



Inventory &  
Logistics



Outdoor



Pharmaceutical

## Product Features

**Anti-static**

**FDA (indirect food contact)**

**Heat Resistant**

**High-density**

**Printhead Protection**

**Proprietary Backcoat**

**Reduced Printer Energy Use**



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Last Updated: 11/20/2017

# R316

Specialty Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Paper**

Coated Paper

**Economy Synthetics** Kimdura®  
Polyart®  
Polyethylene  
Polyolefin  
Polypropylene  
Valeron®  
Synthetic Paper

**Specialty Materials** Matte Kapton®

## Ribbon Properties

**Ink** Resin  
**Color** Black  
**Base Film Thickness** 4.8 ± 0.3μ  
**Ink Thickness** 3.0 ± 0.2μ  
**Total Thickness** 7.8 ± 0.5μ  
**Ink Transfer Temperature** Uncoated Tag 171°C (339°F)



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Last Updated: 11/20/2017

# R395

Textile Resin



## Product Description

This highly durable resin is dry clean and laundry safe. Designed for special textile and garment care applications, this versatile formulation prints on acetate, nylon, polyester, satin, and taffeta. It also provides superior scratch, heat, and water resistance.

## Recommended Applications



Retail

### Product Features

- Dry Clean Safe**
- Halogen-free**
- Heat Resistant**
- Laundry Safe**
- Scratch Resistant**
- Smudge Resistant**
- Steam Resistant**
- Water Resistant**



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Last Updated: 09/01/2017

# R395

Textile Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates



**Specialty Materials** Acetate  
Nylon  
Polyester  
Satin  
Taffeta

## Ribbon Properties

**Ink** Resin  
**Color** Black  
**Base Film Thickness**  $4.5 \pm 0.5\mu$   
**Ink Thickness**  $1.8 \pm 0.5\mu$   
**Total Thickness**  $6.3 \pm 0.5\mu$



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Last Updated: 09/01/2017

# R510C

Durable Color Resin



## Product Description

Available in four standard colors, this is the industry's toughest color resin ribbon. It is capable of handling extreme environmental labeling and is perfect for card printing. Plus the blue, red, and green ribbons are UL recognized.

## Standard Colors



Blue PMS 2935C\*



Red PMS 185C\*



Green PMS 347C\*



Matte Silver PMS 877C\*

Pantone® Matching System (PMS)

\*Colors may vary by substrate

## Recommended Applications



Automotive



Chemicals



Compliance



Electronics



Inventory &  
Logistics

## Product Features

**Abrasion Resistant** 

**FDA (indirect food contact)** 

**High-density** 

**Printhead Protection** 

**Proprietary Backcoat** 

**Solvent Resistant** 



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Last Updated: 09/12/2017

# R510C

Durable Color Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Economy Synthetics** Polyester  
Polypropylene

**Specialty Materials**    PET Cards  
                                 Polyimide  
                                 PVC Cards



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Last Updated: 09/12/2017

# R510HF

Ultra Durable Resin



## Product Description

This halogen-free ribbon is one of the toughest resin ribbons on the market. It's the only halogen-free ribbon capable of handling extreme environmental labeling with unmatched scratch and solvent resistance. Designed with our standard anti-static and backcoat properties to protect the printhead, this product has unbeatable edge definition for crisp, extremely durable and dense barcodes for harsh environments.

## Recommended Applications



Automotive



Chemicals



Compliance



Electronics



Health & Beauty



Inventory &  
Logistics



Outdoor



Pharmaceutical

## Product Features

**Abrasion Resistant**



**Anti-static**



**FDA (indirect food contact)**



**Halogen-free**



**High-density**



**Printhead Protection**



**Proprietary Backcoat**



**Solvent Resistant**



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Last Updated: 09/01/2017

# R510HF

Ultra Durable Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Economy Synthetics** Polyester



**Specialty Materials**      PET Cards  
Polyimide  
PVC Cards  
Top-coated Vinyl

## Ribbon Properties

**Ink**                                  Resin  
**Color**                                Black  
**Base Film Thickness**             $4.8 \pm 0.3\mu$   
**Ink Thickness**                     $2.7 \pm 0.2\mu$   
**Total Thickness**                 $7.5 \pm 0.5\mu$   
**Ink Transfer Temperature**    Uncoated Tag 202°C (396°F)



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Last Updated: 09/01/2017

# R510W

Durable White Resin



## Product Description

Designed with our specially formulated backcoat technology for printhead protection, this ribbon has unmatched scratch and solvent resistance. It is extremely resistant to ethanol and isopropanol and is industry leader in edge definition for clean, durable and dense barcodes.

## Standard Colors

White

## Recommended Applications



Chemicals



Compliance



Electronics



Food & Beverage



Inventory &  
Logistics



Retail

## Product Features

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**Printhead Protection**

**Proprietary Backcoat**

**Scratch Resistant**

**Smudge Resistant**

**Solvent Resistant**



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Last Updated: 09/01/2017

# R510W

Durable White Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Economy Synthetics** Chrome Polyester  
Clear Polyester  
Gloss Silver Polyester  
Matte Silver Polyester

**Specialty Materials** PVC Shrink Tubing

## Ribbon Properties

**Ink** Resin  
**Color** White  
**Base Film Thickness**  $4.8 \pm 0.3\mu$   
**Ink Thickness**  $4.5 \pm 0.2\mu$   
**Total Thickness**  $9.3 \pm 0.5\mu$   
**Ink Transfer Temperature** Uncoated Tag 246°C (475°F)



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Last Updated: 09/01/2017

# R550

Extreme Durable Resin



## Product Description

This ribbon is designed for extreme resistance against most chemicals used in the automotive, chemical, pharmaceutical, electronics and other industries. Enjoy the benefit of printing extremely small, crisp and clearly readable characters with great precision.

Next to its extreme durability, this ribbon offers a smooth and complete ink transfer at lower heat settings, which makes it compatible with a broad range of durable substrates.

## Recommended Applications



Automotive



Chemicals



Electronics



Health & Beauty



Inventory &  
Logistics



Outdoor



Pharmaceutical

## Product Features

**Abrasion Resistant**

**Anti-static**

**FDA (indirect food contact)**

**Halogen-free**

**Heat Resistant**

**High-density**

**High-resolution**

**Printhead Protection**

**Proprietary Backcoat**



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Last Updated: 09/18/2017

# R550

Extreme Durable Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Economy Synthetics** Polyester  
Polyethylene  
Polypropylene



**Specialty Materials**      PET Cards  
Polyimide  
PVC Cards  
Vinyl

## Ribbon Properties

**Ink**                                  Resin  
**Color**                                Black  
**Base Film Thickness**             $4.8 \pm 0.4\mu$   
**Ink Thickness**                     $1.7 \pm 0.4\mu$   
**Total Thickness**                 $6.5 \pm 0.8\mu$   
**Ink Transfer Temperature**    Uncoated Tag 202°C (396°F)



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Last Updated: 09/18/2017

# TR3370

High Opacity White Resin



## Product Description

Specifically formulated for PVC shrink tubing, this white resin is highly resistant to ethanol and isopropanol. It prints well on black, clear, and silver synthetic substrates and offers superior smudge and scratch resistance as well as durability. This ribbon also contains our specially formulated backcoat technology for printhead protection.

## Standard Colors

White

## Recommended Applications



Chemicals



Compliance



Electronics



Food & Beverage



Inventory &  
Logistics







Retail

## Product Features

**FDA (indirect food contact)**

**Halogen-free**

**Printhead Protection**

**Proprietary Backcoat**   
**Scratch Resistant**   
**Smudge Resistant**   
**Solvent Resistant** 



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Last Updated: 09/01/2017

# TR3370

High Opacity White Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates

**Economy Synthetics** Chrome Polyester  
Clear Polyester  
Gloss Silver Polyester  
Matte Silver Polyester

**Specialty Materials** PVC Shrink Tubing

## Ribbon Properties

**Ink** Resin  
**Color** White  
**Base Film Thickness**  $4.8 \pm 0.3\mu$   
**Ink Thickness**  $4.8 \pm 0.2\mu$   
**Total Thickness**  $9.6 \pm 0.5\mu$   
**Ink Transfer Temperature** Uncoated Tag 191°C (375°F)



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Last Updated: 09/01/2017

# TR4070

Classic Resin



## Product Description

This product carries widespread agency approval, including meeting the FDA's requirements for indirect food contact. In addition to superior performance for compliance applications, this ribbon eliminates the need for overlaminates. It also features our specially formulated backcoat technology and exclusive anti-static properties for easy handling and unrivaled printhead protection.

## Recommended Applications



Automotive



Chemicals



Compliance



Electronics



Health & Beauty



Inventory &  
Logistics



Pharmaceutical

## Product Features

**Anti-static**

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**Printhead Protection**

**Proprietary Backcoat**

**Scratch Resistant**

**Smudge Resistant**



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Last Updated: 09/01/2017

# TR4070

Classic Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

## Recommended Substrates

**Economy Synthetics** Polyester



**Specialty Materials** Polyimide  
Top-coated Vinyl

## Ribbon Properties

<b>Ink</b>	Resin
<b>Color</b>	Black
<b>Base Film Thickness</b>	4.8 ± 0.3μ
<b>Ink Thickness</b>	2.0 ± 0.2μ
<b>Total Thickness</b>	6.8 ± 0.5μ
<b>Ink Transfer Temperature</b>	Uncoated Tag 134°C (273°F)



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Last Updated: 09/01/2017

# VR301

Durable Metallic Color Resin



## Product Description

Available in metallic gold and silver, this is the industry's toughest color resin ribbon. With unmatched scratch and solvent resistance, this ribbon is perfect for card printing applications due to its ability to handle extreme environmental conditions.

## Standard Colors



Gold



Silver

## Recommended Applications



Automotive



Chemicals



Compliance



Electronics



Inventory &  
Logistics



Outdoor

## Product Features

**Abrasion Resistant**

**FDA (indirect food contact)**

**High Density**

**Printhead Protection**

**Proprietary Backcoat**

**Solvent Resistant**



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Last Updated: 09/01/2017

# VR301

Durable Metallic Color Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

### Recommended Substrates

**Economy Synthetics** Polyester  
Polypropylene

**Specialty Materials** PET Cards  
Polyimide  
PVC Cards



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Last Updated: 09/01/2017

# M295C

Specialty Near Edge Wax/Resin Color



## Product Description

Print speeds of up to 20 IPS (508mm per second) make this ribbon ideal for flexible packaging applications where speed is critical in the manufacturing process. With our exclusive backcoat technology and anti-static properties for maximum printhead protection, it offers durability and clear images for thermal transfer overprinting on prime retail packaging applications. Available in bright white and silver, this near edge ribbon is widely acknowledged for its opacity, which provides dramatically visible printed images onto multi-colored prime retail packages.

## Standard Colors

Bright White



Silver PMS 877C\*

Pantone® Matching System (PMS)

\*Colors may vary by substrate

## Recommended Applications



**FDA (indirect food contact)** **Halogen-free** **High-density** **High-speed** **Printhead Protection** **Proprietary Backcoat** 

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Last Updated: 09/01/2017

# M295C

Specialty Near Edge Wax/Resin Color

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

---

## Recommended Substrates



<b>Economy Synthetics</b>	Polyester
	Polyethylene
	Polyolefin
	Polypropylene
<b>Specialty Materials</b>	Nylon

## Ribbon Properties

<b>Ink</b>	Wax/Resin
<b>Color</b>	Bright White and Silver
<b>Base Film Thickness</b>	4.5 ± 0.5μ
<b>Ink Thickness Bright White</b>	3.0 ± 0.8μ
<b>Ink Thickness Silver</b>	1.6 ± 0.5μ
<b>Total Thickness Bright White</b>	7.5 ± 1.3μ
<b>Total Thickness Silver</b>	6.1 ± 1.0μ



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Last Updated: 09/01/2017

# M295HD

High Density Near Edge Wax/Resin



## Product Description

This wax/resin is one of the darkest near edge ribbons for flexible packaging applications. With print speeds of up to 26 IPS (660mm per second) combined with its extreme darkness, this ribbon is the clear choice for any high-speed flexible packaging application. Its ability to adhere to a variety of substrates makes it an easy to use, drop-in ready product. With our exclusive backcoat technology and anti-static properties for maximum printhead protection, this wax/resin ribbon is the ideal choice for a wide range of flexible packaging applications.

## Recommended Applications



Food & Beverage



Health & Beauty



Pharmaceutical



Retail

## Product Features

**Anti-Static**

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**High-speed**

**Printhead Protection**

**Proprietary Backcoat**



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Last Updated: 09/01/2017

# M295HD

High Density Near Edge Wax/Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

## Recommended Substrates

**Economy Synthetics**  
Polyester  
Polyethylene  
Polyolefin  
Polypropylene

## Ribbon Properties

<b>Ink</b>	Wax/Resin
<b>Color</b>	Black
<b>Base Film Thickness</b>	4.8 ± 0.3μ
<b>Ink Thickness</b>	1.5 ± 0.2μ
<b>Total Thickness</b>	6.3 ± 0.5μ
<b>Ink Transfer Temperature</b>	Uncoated Tag 82°C (179°F)



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Last Updated: 09/01/2017

# R390

Near Edge Resin



## Product Description

Exceptionally versatile on a wide variety of substrates, this near edge resin also prints at extremely high speeds for faster turnaround. It outperforms the competition in abrasion and solvent resistance, and contains specially formulated backcoat technology, as well as our exclusive anti-static properties, for easy handling and superior printhead protection. This resin ribbon also features edge definition for clean, extremely durable, and dense barcodes.

## Recommended Applications



Automotive



Chemicals



Compliance



Electronics



Health & Beauty



Outdoor



Pharmaceutical

## Product Features

**Anti-static** 

**FDA (indirect food contact)** 

**High-density** 

**High-speed** 

**Printhead Protection** 

**Proprietary Backcoat** 



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Last Updated: 09/01/2017

# R390

Near Edge Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

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## Recommended Substrates



<b>Economy Synthetics</b>	Kimdura®
	Polyart®
	Polyester
	Polyethylene
	Polyolefin
	Polypropylene
	Synthetic Paper
<b>Specialty Materials</b>	Valeron®
	PVC Card
	Vinyl

## Ribbon Properties

<b>Ink</b>	Resin
<b>Color</b>	Black
<b>Base Film Thickness</b>	4.8 ± 0.3µ
<b>Ink Thickness</b>	1.2 ± 0.2µ
<b>Total Thickness</b>	6.0 ± 0.5µ
<b>Ink Transfer Temperature</b>	Uncoated Tag 172°C (341°F)



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Last Updated: 09/01/2017

# R396

High Speed Durable Near Edge Resin



## Product Description

Boasting printing speeds as high as 26 IPS (660mm per second) makes this ribbon the choice for high-speed flexible packaging applications. In addition to high performance, it exceeds the competition in abrasion resistance and is a viable solution for applications such as parts packaging, medical devices, cosmetics, healthcare, and pharmaceuticals. Designed with our standard anti-static and backcoat properties to protect printheads and extend printhead life, this near edge resin also features edge definition to produce dark, dense images for improved scan rates.

## Recommended Applications



Food & Beverage



Health & Beauty



Pharmaceutical

## Product Features

- Abrasion Resistant**
- Anti-static**
- FDA (indirect food contact)**
- Halogen-free**
- High-density**
- High-speed**
- Printhead Protection**
- Proprietary Backcoat**



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Last Updated: 09/01/2017

# R396

High Speed Durable Near Edge Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

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## Recommended Substrates

**Economy Synthetics** Polyester  
Polyethylene  
Polyolefin  
Polypropylene

**Specialty Materials** Nylon

## Ribbon Properties

**Ink** Resin  
**Color** Black  
**Base Film Thickness**  $4.0 \pm 0.5\mu$   
**Ink Thickness**  $1.45 \pm 0.4\mu$   
**Total Thickness**  $5.45 \pm 0.9\mu$   
**Ink Transfer Temperature** Uncoated Tag  $134^{\circ}\text{C}$  ( $274^{\circ}\text{F}$ )



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Last Updated: 09/01/2017

# TR4500

Premium Near Edge Wax/Resin



## Product Description

Part of a complete line of superior-performing near edge product solutions, this ribbon is the best on the market for thermal transfer printers equipped with near edge or corner edge printheads. It is designed with our specially formulated backcoat technology, as well as exclusive anti-static properties, for easy handling and superior printhead protection. This ribbon prints dark images at speeds of up to 12 IPS, and uses low energy settings on a wide variety of label and tag stocks from paper to low-end synthetics.

## Recommended Applications



Food & Beverage



Health & Beauty



Inventory &  
Logistics



Outdoor



Pharmaceutical



Retail

## Product Features

**Anti-static**

**FDA (indirect food contact)**

**Halogen-free**

**High-density**

**Printhead Protection**

**Proprietary Backcoat**



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Last Updated: 09/01/2017



# TR4500

Premium Near Edge Wax/Resin

## Product Specifications

### Wax

- Half Inch
- MP Wax
- TR3021 Red
- TR3022 Blue
- TR3023 Green
- TR4085plus® Premium Resin-Enhanced

### Wax/Resin

- M260 Ultra Durable
- TRX-50 General Purpose
- TRX-55 Premium

### Resin

- R300 General Purpose
- R316 Specialty
- R395 Textile
- R510C Durable Color
- R510HF Ultra Durable
- R510W Durable White
- R550 Extreme Durable
- TR3370 High Opacity White
- TR4070 Classic
- VR301 Durable Metallic Color

### Near Edge

- M295C Specialty Wax/Resin Color
- M295HD High Density Wax/Resin
- R390 Resin
- R396 High Speed Durable Resin
- TR4500 Premium Wax/Resin

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## Recommended Substrates

<b>Paper</b>	Coated Paper
	Coated Tag
	Gloss Paper
	Uncoated Paper
	Uncoated Tag
<b>Economy Synthetics</b>	Kimdura®
	Polyart®
	Polyethylene
	Polyolefin
<b>Specialty Materials</b>	Valeron®
	Tyvek®
	Tyvek Brillion®

## Ribbon Properties

<b>Ink</b>	Resin
<b>Color</b>	Black
<b>Base Film Thickness</b>	4.8 ± 0.3μ
<b>Ink Thickness</b>	3.4 ± 0.2μ
<b>Total Thickness</b>	8.2 ± 0.5μ
<b>Ink Transfer Temperature</b>	Uncoated Tag 74°C (166°F)



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