



## Product Portfolio

### Thermal Transfer Ribbons



Prolong the life of your printhead with



The printhead cleaner  
built in your ribbon.



*The printhead cleaner built in your ribbon.*

## Clear, Sharp Barcodes and Text with Clean Start® Thermal Transfer Ribbons

Exclusive to IIMAK, Clean Start is an innovative printhead cleaner that's built right into the beginning of the ribbon. Simply pull Clean Start through the locked printhead at the start of a new ribbon. Doing so removes debris before it builds up on the printhead, assuring printed images, text, and barcodes are crisp and clear.

**All it takes is six seconds and two easy steps.**

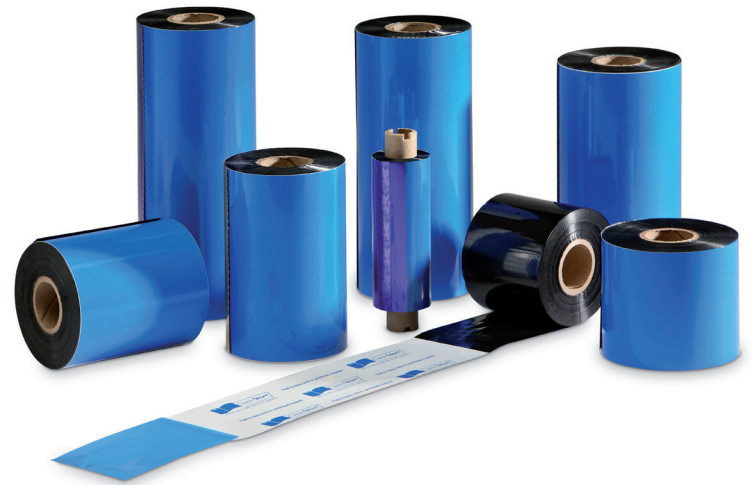


Scan with your smartphone to view IIMAK's Clean Start® video.

Did you know that printer OEM's recommend regular cleaning of the printer's thermal printhead as a way to prevent premature printhead failure and poor print quality?

### Leverage the power of Clean Start to close ribbon opportunities

Promoting Clean Start, the exclusive built-in printhead cleaner, is a great way to further differentiate your product offering from the competition. From maintaining print quality to prolonging printhead life, Clean Start ribbons deliver real value to your customers, further improving retention of current business, and opening the door to new revenue streams through referrals.



## What you need to know to quote ribbon business:

**What is the application?**

**What is the stock and how wide is it?**

The ribbon should always be slightly wider than the stock.

**What is the level of durability?**

- Scratch
- Smudging
- Chemicals
- Outdoor Exposure

**What thermal printer are you using?**

Get the make and model, length of current ribbon.

**Now you can choose an IIMAK product and part number.**

Use Ribbon Finder on Inside IIMAK, or call IIMAK.

# TTR SOLUTION

## OVERVIEW

IIMAK Product	Description	When To Use	Recommended Stock
GP725 (Resin Enhanced Wax)	<ul style="list-style-type: none"> <li>Drop-in replacement</li> <li>Excellent at high speeds (12 IPS)</li> </ul>	Lower durability requirements  Printed information has short life  General purpose labeling	<ul style="list-style-type: none"> <li>Coated and uncoated paper tag and label stocks</li> <li>Synthetic papers (i.e. Kimdura, Polyart)</li> </ul>
High Mark (Resin Enhanced Wax)	<ul style="list-style-type: none"> <li>High durability</li> <li>Low print energy</li> </ul>		<ul style="list-style-type: none"> <li>Coated and uncoated paper tag and label stocks</li> <li>Synthetic papers (i.e. Kimdura, Polyart)</li> </ul>
SW200 (Standard Wax)	<ul style="list-style-type: none"> <li>Economical and reliable</li> <li>Ideal for paper stocks</li> </ul>		<ul style="list-style-type: none"> <li>Uncoated paper &amp; label stocks</li> <li>Coated paper &amp; label stocks</li> </ul>
DC100 (General Purpose Color Wax)	<ul style="list-style-type: none"> <li>Process and spot colors</li> <li>General Purpose</li> </ul>		<ul style="list-style-type: none"> <li>Coated and uncoated paper tag and label stocks</li> <li>Polyethylene films</li> </ul>
PM308 (Premium Wax/Resin)	<ul style="list-style-type: none"> <li>Excellent print quality</li> <li>Ideal for rough stocks and papers</li> </ul>	Mid-range durability requirements  Mild - moderate chemical resistance  Barcodes requiring multiple scans throughout label life	<ul style="list-style-type: none"> <li>Matte, semi-gloss, and high gloss papers</li> <li>Polypropylene</li> <li>Polyethylene</li> </ul>
Prime Mark (Premium Wax/Resin)	<ul style="list-style-type: none"> <li>Excellent on glossy papers and synthetics</li> <li>UL/CSA recognized on select substrates</li> </ul>		<ul style="list-style-type: none"> <li>Coated paper</li> <li>Polyethylene</li> <li>Polypropylene</li> <li>Polyester</li> </ul>
DC200 (Premium Color Wax/Resin)	<ul style="list-style-type: none"> <li>Process and spot colors</li> <li>High durability</li> </ul>		<ul style="list-style-type: none"> <li>Coated paper tag and label stocks</li> <li>Polyethylene</li> <li>Polypropylene</li> </ul>
SP330 (Super Premium Resin)	<ul style="list-style-type: none"> <li>Excellent for most applications</li> <li>High abrasion resistance</li> <li>UL/CSA-recognized on many substrates</li> </ul>	Harsh - extreme environment labeling  Excellent resistance to abrasion, heat, steam, and chemicals  Printed image and label must last life of product	<ul style="list-style-type: none"> <li>Topcoated and print-treated polyesters</li> <li>Polyimide</li> <li>Polypropylene</li> <li>Polyethylene</li> <li>Vinyl</li> <li>Nylon</li> </ul>
SP575 (Super Premium Resin)	<ul style="list-style-type: none"> <li>Excellent harsh chemical resistance</li> <li>Highest abrasion resistance</li> <li>Performs best on PET</li> </ul>		<ul style="list-style-type: none"> <li>Topcoated and print-treated polyesters</li> <li>Polyimide</li> <li>Polypropylene</li> </ul>
DC400 (Super Premium Color Resin)	<ul style="list-style-type: none"> <li>Spot Colors</li> <li>Maximum Durability</li> </ul>		<ul style="list-style-type: none"> <li>Polyethylene</li> <li>Polypropylene</li> <li>Polyester</li> </ul>
NET Mark IQ (Premium Near-Edge Wax/Resin)	<ul style="list-style-type: none"> <li>Crisp, black images</li> <li>Excellent at high speeds</li> <li>Used for tag and label or flexible packaging</li> </ul>	Mid-range durability requirements	<ul style="list-style-type: none"> <li>Coated and uncoated paper tag and label stocks</li> <li>Polypropylene</li> <li>Polyethylene</li> </ul>
NET Flex+ (Premium Near-Edge Wax/Resin)	<ul style="list-style-type: none"> <li>Excellent print quality at high speeds up to 40 IPS</li> <li>Specifically designed for flexible packaging</li> </ul>	Fast print speed requirements up to 40 IPS	<ul style="list-style-type: none"> <li>OPP</li> <li>PET</li> <li>Polyethylene</li> </ul>
NET Color (Premium Near-Edge Wax/Resin)	<ul style="list-style-type: none"> <li>Process and spot colors</li> <li>Specifically designed for flexible packaging</li> </ul>	Designed for use in both tag and label and flexible packaging applications	<ul style="list-style-type: none"> <li>Coated paper tag and label stocks</li> <li>Polyethylene</li> <li>Polypropylene</li> </ul>





Retail



Shipping



Compliance



Hang Tags



Shelf/Bin



Warehousing



WIP Tracking

## GP725 Resin Enhanced Wax

Capable and Compatible

### Benefits

- Dark images with solid fill and no show-through
- Easy to use, no printer adjustments needed
- Unbeatable performance at high print speeds
- Prints on a wide range of tag and label stocks
- Anti-static – Ideal for RFID
- Guardian2 backcoat extends printhead life

### Recommended Stocks

- Coated and uncoated paper tag and label stock
- Synthetic papers (i.e. Kimdura, Polyart)



### Technical Specifications

Color Code Tab .....	Clear
Maximum Print Speed .....	12 IPS
Film Thickness .....	4.5 Microns
Total Ribbon Thickness .....	8.6 Microns
Transmission Density .....	2.7 MacBeth Scale
Ink Melting Point .....	65°C/149°F
Sample GP725 Ribbons	
Part # CES11075 – 110 mm x 50 m – CSI	
Part # CES11074 – 110 mm x 50 m – CSO	

## High Mark Resin Enhanced Wax

Added Durability

### Benefits

- Prints at lower energy settings
- Offers higher durability than most waxes
- Outstanding print performance on coated stocks
- Specially formulated backcoat protects the printhead

### Recommended Stocks

- Coated and uncoated paper tag and label stock
- Synthetic papers (i.e. Kimdura, Polyart)



### Technical Specifications

Color Code Tab .....	Purple
Maximum Print Speed .....	10 IPS
Film Thickness .....	4.5 Microns
Total Ribbon Thickness .....	7.5 Microns
Transmission Density .....	1.45 MacBeth Scale
Ink Melting Point .....	62°C/144°F
Sample High Mark Ribbons	
Part # CES11011 – 110 mm x 50 m – CSI	
Part # CES11012 – 110 mm x 50 m – CSO	
UL Labeling Reference	
Flexcon: MH16635	
3M: MH16411	

## SW200 Standard Wax

Economical Choice for Standard Applications

### Benefits

- Handles basic applications with ease
- Reliable, economical wax ink
- Good stock latitude from rough to smooth papers

### Recommended Stocks

- Uncoated paper and label stocks
- Coated paper and label stocks



### Technical Specifications

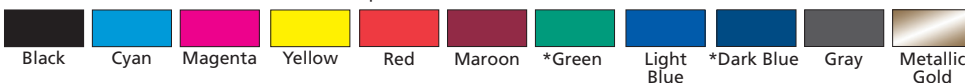
Color Code Tab .....	Red
Maximum Print Speed .....	10 IPS
Film Thickness .....	4.5 Microns
Total Ribbon Thickness .....	8.1 Microns
Transmission Density .....	<4.0 MacBeth Scale
Ink Melting Point .....	67°C/152°F
Sample SW200 Ribbons	
Part # CES11033 – 110 mm x 50 m – CSI	
Part # CES11032 – 110 mm x 50 m – CSO	

## DC100 General Purpose Wax

### General Purpose Wax

Process:

Spot:



### Recommended Stocks

- Uncoated paper tag and label stocks
- Coated paper tag and label stocks
- Polyethylene films

### Technical Specifications

Maximum Print Speed .....	8 IPS
Film Thickness .....	4.5 Microns
Total Ribbon Thickness .....	8.0 Microns
Ink Melting Point .....	68°C/154°F

Additional Specialty Colors Available.

\*Scannable color: may pass for visible light scanners

Swatches are approximate representations of actual colors.

No guarantee can be made for exact color match.

# WAX/RESIN



Industrial



Outdoor



Horticulture



Lumber



Chemical Drum



Shipping



Pharmaceutical



Shelf/Bin



Pallet

## PM308 Premium Wax/Resin

Outstanding Versatility and Print Quality



### Benefits

- Prints on a broad range of substrates, including both rough and smooth surfaces
- Crisp character and line formation with dark solid fills
- Stands up to rough handling, abrasion, and outdoor elements
- Compatible print energy requirements, no energy adjustments
- Anti-static formula and specially formulated backcoat protects the printhead

### Recommended Stocks

- Matte, semi-gloss, high gloss paper • Polypropylene • Polyethylene

### Technical Specifications

Color Code Tab ..... Teal  
Maximum Print Speed ..... 8 IPS  
Film Thickness ..... 4.5 Microns  
Total Ribbon Thickness ..... 8.4 Microns  
Transmission Density ..... 2.6  
MacBeth Scale

Ink Melting Point ..... 65°C/149°F

Sample PM308 Ribbons

Part # CES11027 – 110 mm x 50 m – CSI

Part # CES11026 – 110 mm x 50 m – CSO

## Prime Mark Premium Wax/Resin

Excellent Durability for Mid-Range Applications



### Benefits

- Excellent scratch and smudge resistance
- Withstands multiple scans, outdoor elements, rough handling
- Dark black images
- Notable performance on glossy papers, BOPP, PE
- Specially formulated backcoat protects the printhead

### Recommended Stocks

- Coated paper • Polyethylene • Polypropylene • Polyester

### Technical Specifications

Color Code Tab ..... Green  
Maximum Print Speed ..... 8 IPS  
Film Thickness ..... 4.5 Microns  
Total Ribbon Thickness ..... 6.8 Microns  
Transmission Density ..... 1.10  
MacBeth Scale

Ink Melting Point ..... 80°C/176°F

Sample Prime Mark Ribbons

Part # CES11023 – 110 mm x 50 m – CSI

Part # CES11022 – 110 mm x 50 m – CSO

UL and CSA Labeling Reference:

Avery Fasson: UL MH17205, CSA 97198

FLEXcon: UL ML16635, CSA 99214

3M: UL MH16411

## DC200 Premium Color Wax/Resin

### Premium Wax/Resin

Process:



Black Cyan Magenta Yellow Lemon Yellow Orange Red \*Wine

Spot:



\*Shamrock Green \*Forest Green White \*Royal Blue \*Midnight Blue Violet \*Brown Metallic Silver Metallic Gold

### Recommended Stocks

- Coated paper tag and label stocks • Polyethylene films • Polypropylene films

### Technical Specifications

Maximum Print Speed ..... 8 IPS  
Film Thickness ..... 4.5 Microns  
Total Ribbon Thickness ..... 7.4 Microns  
Ink Melting Point ..... 80°C/176°F

\*Scannable color: may pass for visible light scanners

Swatches are approximate representations of actual colors.

No guarantee can be made for exact color match.



Industrial



Outdoor



Automotive



Electronics



Medical Devices



Pharmaceutical



Life Sciences



Garment

## SP330 Super Premium Resin

The Ultimate in Durability



### Benefits

- Maximum durability for harsh environment labeling
- Excellent mechanical durability
- Good resistance to typical chemicals
- Very dark black images with exceptional sharpness
- Prints on a wide range of synthetic receivers
- Anti-static formula and backcoat extend printhead life

### Recommended Stocks

- Topcoated and print-treated polyester • Polyimide films
- Polypropylene • Polyethylene • Vinyl • Nylon

### Technical Specifications

Color Code Tab.....	Blue
Maximum Print Speed.....	6 IPS
Film Thickness.....	4.5 Microns
Total Ribbon Thickness.....	6.2 Microns
Transmission Density.....	1.00
	MacBeth Scale
Ink Melting Point.....	110°C/230°F
Sample SP330 Ribbons	
Part # CES11019 – 110 mm x 50 m – CSI	
Part # CES11018 – 110 mm x 50 m – CSO	
UL and CSA Labeling Reference:	
Avery Fasson: UL MH17205, CSA 97198	
FLEXcon: UL MH16635, CSA 99214	
3M: UL MH16411	

## SP575 Super Premium Resin

Maximum Durability



### Benefits

- Exceptional mechanical durability
- Excellent resistance to harsh chemicals
- Very dark images with exceptional sharpness
- Prints on a wide range of synthetic receivers
- Exceptional fine line quality
- Anti-static formula and backcoat extend printhead life

### Recommended Stocks

- Top-Coated and Print-Treated Polyester • Polyimide Films
- Polypropylene • Polyethylene

### Technical Specifications

Color Code Tab.....	Gold
Maximum Print Speed.....	6 IPS
Film Thickness.....	4.5 Microns
Total Ribbon Thickness.....	5.7 Microns
Transmission Density.....	1.60
	MacBeth Scale
Ink Melting Point.....	110°C/230°F
Sample SP575 Ribbons	
Part # CES11013 – 110 mm x 50 m – CSI	
Part # CES11014 – 110 mm x 50 m – CSO	
UL and CSA Labeling Reference:	
Avery Fasson: UL MH17205, CSA 97198	
FLEXcon: UL MH16635, CSA 99214	
3M: UL MH16411	

## DC400 Super Premium Resin Color

### Super Premium Resin

Spot:



Red Light Blue Dark Blue Shamrock Green Gray

### Recommended Stocks

- Polyethylene films • Polypropylene films • Polyester films

### Technical Specifications

Maximum Print Speed.....	6 IPS
Film Thickness.....	4.5 Microns
Total Ribbon Thickness.....	8.0 Microns
Ink Melting Point.....	110°C/230°F
Additional Specialty Colors Available.	
Swatches are approximate representations of actual colors.	
No guarantee can be made for exact color match.	

# WAX/RESIN

## NEAR-EDGE



## NET Flex+ Premium Near-Edge Wax/Resin

High Speed Printing

### Benefits

- Excellent print quality at all speeds up to 40 IPS
- Highly compatible at various darkness/energy settings
- Produces dark, black imprints
- Wax/resin formula offers good durability with resistance to abrasion encountered on form, fill and seal equipment
- Performs well in ambient and cold printing environments

### Recommended Stocks

- OPP • PET • Polyethylene

### Technical Specifications

Color Code Tab .....	Red
Film Thickness.....	4.5 Microns
Total Ribbon Thickness.....	6.2 Microns
Transmission Density .....	1.50
	MacBeth Scale
Ink Melting Point .....	57°C/134°F

## NET Mark IQ Premium Near-Edge Wax/Resin

Fast Processing

### Benefits

- Produces exceptionally black bar codes and images with no show-through
- Broad stock latitude, prints well on both rough, uncoated stocks and smooth, coated stocks
- Mid-range scratch and smear resistance
- Print speeds up to 24 IPS in flexible packaging

### Recommended Stocks

- Coated and Uncoated • Polyolefin (i.e. Tyvek) • Paper Tag and Label Stocks
- Polypropylene • Polyethylene

### Technical Specifications

Color Code Tab .....	Copper
Maximum Print Speed.....	24 IPS
Film Thickness.....	4.5 Microns
Total Ribbon Thickness.....	7.6 Microns
Transmission Density .....	1.10
	MacBeth Scale
Ink Melting Point .....	70°C/158°F

## NET Color Premium Near-Edge Wax/Resin

### Near Edge Wax/Resin

Process:



Spot:



### Recommended Stocks

- Coated paper tag and label stocks • Polyethylene films • Polypropylene films

### Thermal Transfer Ribbon Storage Conditions

For optimal print results, thermal transfer printing should occur in the temperature range of 41°F to 95°F at 45% to 85% relative humidity. Suggested storage conditions for up to one year duration are 23°F to 104°F at 20% to 85% relative humidity. Exposing IIMAK thermal transfer ribbons to direct sunlight or moisture will cause damage to the ribbons.

### Technical Specifications

Maximum Print Speed.....	12 IPS
Film Thickness.....	4.5 Microns
Total Ribbon Thickness.....	7.5 Microns
Ink Melting Point .....	70°C/158°F
Swatches are approximate representations of actual colors.	
No guarantee can be made for exact color match.	

Toll-Free: 888.464.4625 • Tech Line: 888.372.0137