

Dynic Thermal Transfer Ribbons

1. Ribbons suited for Flat Head printers

<u>Available Ink Type</u>	<u>TTR</u>
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Wax	M2
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Wax/Resin	L3 M3 S21
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Resin	HL26 HL27 HL45 HL30 HL35 HT70
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2. Ribbons suited for Near Edge printers

<u>Available Ink Type</u>	<u>TTR</u>
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Wax/Resin	HT8+
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Resin	HT4 HT7 HT70
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3. Ribbons suited for In Line printers

<u>Available Ink Type</u>	<u>TTR</u>
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Wax/Resin	HT8+
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General Information on Ribbons for Normal (Flat) Head Printers

Wax and Wax/Resin Ribbons

	M - SERIES	L - SERIES	M - SERIES	S - Series
Type	M - 2	L – 3	M - 3	S - 21
Ink Type	Wax	Wax/Resin	Wax/Resin	Wax/Resin
Feature	General Purpose Wax	Smear Resistance	Smear Resistance	Smear Resistance
Usage	Labels & Tags	Labels & Tags	Labels & Tags, Overprinted Labels	Labels & Tags, Overprinted Labels
Receiving Material	<ul style="list-style-type: none"> - Vellum Paper, - Uncoated Paper - Coated Paper, - Synthetic Materials (PE, PP, PVC, PET etc.) 	<ul style="list-style-type: none"> - Vellum Paper - Uncoated Paper, - Coated Paper, - Synthetic Materials (PE, PP, PVC, PET etc.), - Textile Care Labels with 50+ Sec BEKK (NB. not suitable for Dry Cleaning) 	<ul style="list-style-type: none"> - Vellum Paper, - Coated Paper, - Synthetic Materials (PE, PP, PVC, PET etc.), - Overprinted labels, - Colour Washes, - Varnished Labels, 	<ul style="list-style-type: none"> - Vellum Paper - Uncoated Paper, - Coated Paper, - Synthetic Materials (PE, PP, PVC, PET etc.), - Colour Washes - Overprinted Paper, - Board Stock for Swing Tags.
Colours Available	Black	- Black,	Black	<ul style="list-style-type: none"> - Black, - Pantone available on request - Standard colours: Red, Blue, Green, Brown
Smear Resistance	2	3	4	4
Scratch Resistance	2	3	4	4
Heat Resistance	2	3	3	4
Chemical Resistance	1	3	3	3
Print Speeds (Mm/Sec)	Up To 300	Up to 175	Up to 300	Up to 150

1 - Low 2 - Fair 3 - Good 4 - Very Good 5 – Excellent

The Information is For Guidance Only

Dependant on Receiving Materials
See Specification Sheet for Chemical Resistance

DYN0106

General Information on Ribbons for Normal (Flat) Head Printers

Resin Ribbons

	HL & HT SERIES			
Type	HL26	HL27	HL 45	HT - 70
Ink Type	Resin	Resin	Resin	Resin
Feature	Alcohol Resistance	Petrol Resistance	Chemical Resistance	High Temperature Smudge, Scratch & Alcohol Resistance
Usage	Labels & Tags	Labels & Tags	Labels & Tags	Synthetic Labels Food Packaging & Tags
Receiving Material	- Coated Paper - Synthetic Materials (PE, PP, PVC, PET etc.)	- Coated Paper - Synthetic Materials (PE, PP, PVC, PET etc.)	- Coated Paper, - Synthetic Materials (PE, PP, PVC, PET etc.)	- Synthetic Materials (PE, PP, PVC, PET etc.), - Uncoated Paper - Coated Paper, Swing Tags
Colours Available	- Black, - Pantone available on request, - Standard colours: White - Colours available on request: Red, Blue, Yellow, Green, Grey, Brown	- Black, - Pantone available on request, - Standard colours: Red, Blue, White, Green	Black	Black
Smear Resistance	5	5	5	4
Scratch Resistance	5	5	5	4
Heat Resistance	4	4	4	5
Chemical Resistance	5	5	5	4
Print Speeds (Mm/Sec)	Up to 100	Up to 100	Up to 150	Up to 120

1 - Low 2 - Fair 3 - Good 4 - Very Good 5 – Excellent

The Information is For Guidance Only

Dependant on Receiving Materials See Specification Sheet for Chemical Resistance

DYN0106

General Information on Ribbons for Normal (Flat) Head Printers

Resin Ribbons

Type	HL30	HL35
Ink Type	Resin	Resin
Feature	Wash & Dry Cleaning Resistance, Ironing Resistance, High Temperatures, Most Aggressive Cleaning Environments	Wash and Dry Cleaning Resistance, Ironing Resistance
Usage	Textile Labels for garments, Suitable for most aggressive cleaning environments	Textile Labels For Garments
Receiving Material	- Synthetic Material (PE, PP, PVC, PET etc.), - Dynic's range of Textile Care Labels: - Polyester Satin - Polyamides (Coated Nylon) - Polyester Textile Materials.	Dynic's range of Textile Care Labels: - Polyester Satin, - Polyamides (Coated Nylon), - Polyester Textile Materials.
Colours Available	Black	- Black, - Pantone available on request, - Standard colours: Blue, Red, Green, White
Smear Resistance	5	5
Scratch Resistance	5	5
Heat Resistance	5	5
Chemical Resistance	5	5
Print Speeds (Mm/Sec)	Up to 75	Up to 100

1 - Low 2 - Fair 3 - Good 4 - Very Good 5 – Excellent

The Information is For Guidance Only

Dependant on Receiving Materials
See Specification Sheet for Chemical Resistance

General Information on Ribbons for Edge (Corner) Head Printers

Wax/Resin and Resin Ribbons

	HT SERIES			
Type	HT8+	HT 4	HT 7	HT - 70
Ink Type	Wax/Resin	Resin	Resin	Resin
Feature	High Speed Printing	Smudge, Scratch & Alcohol Resistance	Smudge & Scratch Resistance	High Temperature Smudge, Scratch & Alcohol Resistance
Usage	Labels and Tags	Synthetic Materials	Synthetic Materials	Synthetic Labels Food Packaging & Tags
Receiving Material	- Vellum Paper, - Uncoated Paper, - Coated Paper, - Synthetic Materials (PE, PP, PVC, PET etc.)	- Coated Paper - Synthetic Materials (PE, PP, PVC, PET etc.)	- Synthetic Materials (PE, PP, PVC, PET etc.)	- Synthetic Materials (PE, PP, PVC, PET etc.), - Uncoated Paper - Coated Paper, Swing Tags
Colours Available	Black - Standard colours: Green, Blue, Red & White - Pantone available on request,	- Black, - Pantone available on request, - Standard colours: White - Colours available on request: Red, Blue, Yellow, Green, Grey, Brown	Black	Black
Smear Resistance	4	5	5	4
Scratch Resistance	3	4	5	4
Heat Resistance	3	4	4	5
Chemical Resistance	3	4	5	4
Print Speeds (Mm/Sec)	Up to 500	Up to 130	Up To 100	Up to 120

1 - Low 2 - Fair 3 - Good 4 - Very Good 5 – Excellent

The Information is For Guidance Only

Dependant on Receiving Materials See Specification Sheet for Chemical Resistance

DYN0106

General Information on Ribbons for In Line Printers

Wax/Resin Ribbons

IN LINE SERIES	
	NEAR EDGE
Type	HT8+
Ink Type	Wax/Resin
Feature	Smear Resistance
Usage	Flat Box, Board And Flow Line Packaging
Receiving Material	<ul style="list-style-type: none"> - Vellum Paper - Coated Paper, - Coated Board, - Polymers, - Co-Polymers (PE, PP, PVC, PET etc.), - Flat Box, Board & Flow Line Packaging.
Colours available	<ul style="list-style-type: none"> - Black, - Pantone available on request, - Standard colours: Green, Blue, Red & White
Smear Resistance	3
Scratch Resistance	3
Heat Resistance	3
Chemical Resistance	3
Print Speeds (mm/sec)	Up To 500

1 - Low 2 - Fair 3 - Good 4 - Very Good 5 – Excellent

The Information is For Guidance Only

Dependant on Receiving Materials
See Specification Sheet for Chemical Resistance

FLAT HEAD TECHNOLOGY WAX - M2

IDEAL FOR:

MAIN FEATURES:

Economy paper label stocks.

- M2 offers
- greater smear resistance than normal wax products
 - ladder bar codes at high speed
 - high-speed printing
 - colour wash and varnished labels
 - low head energy
 - anti-static properties
 - high definition (high d.p.i.)
 - FDA Approved / Listed

COLOURS:

- Black

M2 is a general-purpose wax ribbon designed for use on Flat Head printers. It is mainly used for printing labels and tags and is ideal for dispatch boxes and stock control labelling. It is designed to run on a full spectrum of machines and most paper stock materials. M2's combination of high speed and low head temperature means that the print head life is extended. It also has very good anti-static properties.

Suitable receiving material	Comments
Vellum Paper, Uncoated Paper, Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.)	It offers outstanding results on rough vellum paper as well as on papers with a relatively low degree of smoothness. M2 is compatible with all major paper label manufacturers' products.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	***	M2 offers good smear and scratch resistance in comparison with normal wax products.
Scratch resistance	**	
Heat resistance	**	
Chemical resistance	**	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date. Keep away from direct sunlight.

FLAT HEAD TECHNOLOGY

WAX/RESIN - L3

IDEAL FOR:

Vellum paper, uncoated paper, coated paper, synthetic materials (PE, PP, PVC, PET etc.) and wash care labels with 50+ Sec BEKK (NB. Not suitable for dry cleaning).

Environments requiring good smear, heat and chemical resistance.

High-definition bar code labels requiring high print durability.

MAIN FEATURES:

- L3 offers
- rub and smear resistance
 - ladder bar codes at high speed
 - excellent edge definition at high print speed
 - FDA Approved / Listed

COLOURS:

- Black
- Pantone available on request

L3 is a versatile wax/resin product designed for Flat Head printers which offers a degree of rub, smear and alcohol resistance. It is ideal for shipping, box and production control labelling and other labels where durability and cost efficient printing are important.

Suitable receiving material	Comments										
Vellum Paper, Uncoated Paper, Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.), Wash Care Labels (50+ Sec BEKK) – NB. Not suitable for dry cleaning.	It gives good print results on vellum, uncoated papers, coated papers and many synthetic stocks . L3 is compatible with all major paper label manufacturers' products.										
Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	***	L3 ribbons are ideal for applications requiring improved rub and smear resistance .
Scratch resistance	***	
Heat resistance	***	
Chemical resistance	***	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date. Keep away from direct sunlight

FLAT HEAD TECHNOLOGY

WAX/RESIN - M3

IDEAL FOR:

Vellum papers, coated papers, synthetic materials, over printed, colour washes and varnished labels. Environments requiring good smear, heat and chemical resistance. High-definition bar code labels requiring high print durability.

MAIN FEATURES:

M3 offers

- rub and smear resistance
- ladder bar codes at high speed
- excellent edge definition at high print speed
- FDA Approved / Listed

COLOURS:

- Black

M3 is a versatile wax/resin product designed for Flat Head printers which offers a degree of rub, smear and alcohol resistance. It is ideal for over printed and colour washed labels and other labels where durability and cost efficient printing are important.

Suitable receiving material	Comments
Vellum Paper, Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.), Overprinted labels, Colour Washes, Varnished Labels.	It gives good print results on coated, label and tag stocks and many synthetic stocks . M3 is compatible with all major paper label manufacturers' products.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	****	M3 ribbons are ideal for applications requiring improved rub and smear resistance .
Scratch resistance	****	
Heat resistance	***	
Chemical resistance	***	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date. Keep away from direct sunlight

FLAT HEAD TECHNOLOGY

WAX/RESIN – S21

IDEAL FOR:

Vellum paper, uncoated paper, coated paper, synthetic materials (PE, PP, PVC, PET etc.), colour washes, overprinted paper, and board stock for swing tags.

Environments requiring excellent smear, scratch and heat / steam resistance.

High-definition bar code labels requiring high print durability.

MAIN FEATURES:

S21 offers

- rub and smear resistance
- ladder bar codes at high speed
- excellent edge definition at high print speed
- good steam resistance
- FDA Approved / Listed

COLOURS:

- Black
- Pantone available on request
- Standard colours: red, blue, green, brown

S21 is a versatile wax/resin product designed for Flat Head printers which offers an excellent degree of rub, smear, scratch and heat resistance. It is ideal for tag and card stocks used for swing tickets and other labels where durability and cost efficient printing are important.

Suitable receiving material	Comments										
Vellum Paper, Uncoated Paper, Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.), Colour Washes, Overprinted Paper, Board Stock for Swing Tags	It gives good print results on coated and uncoated papers, label , tag stocks , swing tags and many synthetic stocks . S21 is compatible with all major paper label manufacturers' products.										
Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	S21 ribbons are ideal for applications requiring excellent smear and scratch resistance .
Scratch resistance	*****	
Heat resistance	*****	
Chemical resistance	***	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date. Keep away from direct sunlight

NEAR EDGE / FLAT HEAD TECHNOLOGY RESIN - HT70

IDEAL FOR: Synthetic materials (CPP, OPP, PET, NYLON etc.).

MAIN FEATURES: HT70 offers

- Scratch & Smear resistance
- Resistance to alcohol
- high temperature resistance

COLOURS: - Black

HT70 is a highly durable resin ribbon designed for Flat Head & Near Edge printers. HT70 is designed for printing onto food packaging, plastic films and synthetic materials with excellent print quality. This ribbon offers very good rub, scratch and smear resistance and resists high temperatures and alcohol after printing.

Suitable receiving material	Comments
Synthetic Materials (CPP, OPP, PET, NYLON etc.) Swing Tags	HT70 is compatible with all major paper label manufacturers' products. HT70 is ideal for printing onto plastic film, synthetic papers and packaging materials

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	****	HT70 offers a high level of quality as regards smear, scratch, solvent and heat resistance .
Scratch resistance	****	
Heat resistance	*****	
Solvent resistance	****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

FLAT HEAD TECHNOLOGY RESIN – HL26

IDEAL FOR:

Coated paper, synthetic materials (PE, PP, PVC,

PET etc.)

MAIN FEATURES:

HL26 offers - smudge and scratch resistance
- alcohol resistance

COLOURS:

- Black
- Pantone available on request
- Standard colours: white
- Colours available on request: red, blue, yellow, green, grey, brown

HL26 is a resin product designed for Flat Head printers. It is ideal for durable printing on a number of plastics including polyester and vinyl films as well as synthetic paper.

Suitable receiving material	Comments
Coated Paper Synthetic Materials (PE, PP, PVC, PET etc.)	HL26 is ideal for printing onto plastic film and synthetic paper. HL26 is compatible with all major paper label manufacturers products.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HL26 has excellent degree of rub, smear and scratch resistance. Alcohol resistant
Scratch resistance	*****	
Heat resistance	****	
Chemical resistance	*****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

FLAT HEAD TECHNOLOGY

RESIN – HL27

IDEAL FOR: Coated paper, synthetic materials (PE, PP, PVC, PET etc.)

Environments requiring high resistance to scratching, heat and chemicals.

MAIN FEATURES: HL27 offers

- smudge and scratch resistance
- petrol resistance
- FDA Approved / Listed

COLOURS:

- Black
- Pantone available on request
- Standard colours: red, blue, white, green

HL27 is a versatile durable resin product designed for Flat Head printers. It is ideal for durable printing on a number of plastics including polyester and vinyl films as well as synthetic paper. HL27 will withstand the harshest industrial environments.

Suitable receiving material	Comments
Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.)	HL27 is ideal for printing onto plastic film and synthetic paper. HL27 is compatible with all major paper label manufacturers products.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HL27 has excellent degree of rub, smear and scratch resistance. Petrol resistant
Scratch resistance	*****	
Heat resistance	****	
Chemical resistance	*****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

FLAT HEAD TECHNOLOGY

RESIN - HL45

IDEAL FOR:

Coated paper, synthetic materials (PE, PP, PVC, PET etc.)

Environments requiring high resistance to scratching, heat and chemicals.

MAIN FEATURES:

HL45 offers

- scratch resistance
- alcohol resistance
- engine oil
- excellent print definition on ladder Barcodes
- FDA Approved / Listed

COLOURS:

- Black

HL45 is a resin product designed for printing on Flat Head printers. HL45 ribbons are ideal for durable printing on a number of plastics including polyester and vinyl films as well as synthetic paper. HL45 will withstand the harshest industrial environments and will also resist scratching at 100°C

Suitable receiving material	Comments
Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.)	HL45 is ideal for printing on plastic film and synthetic paper . HL45 is compatible with all major label manufacturers' products.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HL45 has an excellent degree of rub, smear scratch and chemical resistance. HL 45 has excellent print definition on ladder barcodes Alcohol and Engine Oil resistant
Scratch resistance	*****	
Heat resistance	****	
Chemical resistance	*****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.



FLAT HEAD TECHNOLOGY

RESIN - HL30

IDEAL FOR:

Synthetic materials (PE, PP, PVC, PET etc.), wash care labels (50+ Sec BEKK) & Dynic's Wash Care labels: polyester satin, polyamides (coated nylon) and polyester textile materials.

MAIN FEATURES:

HL30 offers

- high durability
- resistance to high temperatures
- resistance to aggressive environments
- ladder bar codes
- FDA Approved / Listed

COLOURS:

- Black

HL30 is a resin product designed for Flat Head printers. HL30 ribbons are tailor made for customers requiring their labels to be highly resistant to halogen type solvents. HL30 ribbons can withstand washing, dry cleaning, ironing and steam pressing and are therefore perfect for printing on fabric materials. HL30 is the ideal companion to Dynic's range of textile label stocks, which used together produce long life, high-quality, high-resolution labels.

Suitable receiving material	Comments
Synthetic Materials (PE, PP, PVC, PET etc.), Textile Care labels (50+ Sec BEKK), Dynic's Textile Care Labels: - Polyester Satin, - Polyamides (Coated Nylon), - Polyester Textile Materials	It can be washed, dry-cleaned, ironed and steam pressed . It can also be printed on wash care labels . When used in conjunction with Dynic's range of coated textile label stocks and thermal transfer foils, HL30 conforms to the UK standard BS5742 . HL30 is compatible with all major paper label manufacturers' product.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HL30 offers rub, smear and scratch resistance , and is also resistant to abrasion and fading . It can resist temperatures up to 300°C .
Scratch resistance	*****	
Heat resistance	*****	
Chemical resistance	*****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

FLAT HEAD TECHNOLOGY RESIN - HL35

IDEAL FOR:

Dynic's Wash Care labels: polyester satin, polyamides (coated nylon) and polyester textile materials.

MAIN FEATURES:

HL35 offers

- high durability
- smear and scratch resistance
- heat and chemical resistance
- ladder bar codes
- lower head energy than HL30
- printing on wash care labels
- FDA Approved / Listed

COLOURS:

- Black
- Pantone available on request
- Standard colours: blue, red, green, white

HL35 is a resin product designed for Flat Head printers. HL35 ribbons are ideal for printing on textile labels for garments as it is resistant to washing, dry cleaning and ironing. HL35 combined with Dynic's range of Cetus coated fabrics yield high-resolution and high quality.

Suitable receiving material	Comments
Dynic's Textile Care Labels: - Polyester Satin, - Polyamides (Coated Nylon), - Polyester Textile Materials	When used in conjunction with Dynic's range of coated textile label stocks and thermal transfer foils, HL35 conforms to the UK standard BS5742 and can be washed, dry cleaned and ironed . HL35 is compatible with all major paper label manufacturers' product.

Printing Information											
Speed up to 100 Mm/Sec (M)		M2	L3	M3	S21	HL 26	HL 27	HL 45	HL 30	HL 35	HT70
	S	H	H	H	H	M	M	M	L	L	M
	T	1	2	2	3	3	3	3-4	5	3	5

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HL35 demonstrates smear, scratch, heat and chemical resistance
Scratch resistance	*****	
Heat resistance	*****	
Chemical resistance	*****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

NEAR EDGE TECHNOLOGY WAX/RESIN – HT8+

IDEAL FOR: Vellum paper, uncoated paper, coated paper, synthetic paper (PE, PP, PVC, PET etc.)

Where durability is necessary.

MAIN FEATURES: HT8+ offers

- rub and smear resistance
- scratch resistance
- ladder bar codes at high speeds
- high-speed printing
- FDA Approved / Listed

COLOURS:

- Black
- Standard colours: red, blue, green, brown

HT8+ is a wax/resin ribbon designed for Edge or Near Edge printers. It has a good smudge and scratch resistance and produces an excellent print quality on a wide variety of packaging substrates and label stocks.

Suitable receiving material	Comments
Vellum Paper, Uncoated Paper, Coated Paper, Synthetic Materials (PE, PP, PVC, PET etc.).	HT8+ is ideal for high speed printing on a number of papers, plastics including polyester and vinyl films and synthetic paper . HT8+ is compatible with all major paper label manufacturers' products.

Printing Information	Speed and Temperature comparison				
Speed up to 300 Mm/Sec (H)		HT8+	HT4	HT7	HT70
	S	H	M	L	M
	T	4	4	5	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	****	HT8+ offers rub and smear resistance. It is also scratch and heat resistance
Scratch resistance	***	
Heat resistance	***	
Chemical resistance	***	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 85% relative humidity Best results obtained with printing within 12 months of manufacturing date.

NEAR EDGE TECHNOLOGY RESIN – HT4

IDEAL FOR: Coated paper, synthetic materials (PE, PP, PVC, PET etc.).

MAIN FEATURES: HT4 offers - smudge and scratch resistance
- alcohol resistance

COLOURS:

- Black
- Pantone available on request
- Standard colours: white
- Colours available on request: red, blue, yellow, green, grey, brown

HT4 is a resin ribbon designed for Near Edge printers. It is ideal for durable printing on a number of plastics including polyester and vinyl films as well as synthetic paper.

Suitable receiving material	Comments
Coated Paper Synthetic Materials (PE, PP, PVC, PET etc.)	HT4 is ideal for printing on plastic film and synthetic paper . HT4 is compatible with all major paper label manufacturers' products.

Printing Information	Speed and Temperature comparison				
Speed up to 130 Mm/Sec (M)		HT8+	HT4	HT7	HT70
	S	H	M	L	M
	T	4	4	5	5

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HT4 offers smear and scratch resistance and chemical resistance . Alcohol resistant.
Scratch resistance	****	
Heat resistance	****	
Chemical resistance	****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

NEAR EDGE TECHNOLOGY RESIN - HT7

IDEAL FOR: Synthetic materials (PE, PP, PVC, PET etc.).

MAIN FEATURES: HT7 offers

- smudge and scratch resistance
- alcohol resistance
- ladder bar codes

COLOURS: - Black

HT7 is a highly durable resin ribbon designed for Near Edge printers. HT7 is designed for printing on plastic films and synthetic materials with excellent print quality. This ribbon offers very good rub, scratch and alcohol resistance.

Suitable receiving material	Comments
Synthetic Materials (PE, PP, PVC, PET etc.)	HT7 is compatible with all major paper label manufacturers' products.

Printing Information	Speed and Temperature comparison				
Speed up to 100 Mm/Sec (H)		HT8+	HT4	HT7	HT70
	S	H	M	L	M
	T	4	4	5	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	*****	HT7 offers a high level of quality as regards smear, scratch, heat and chemical resistance .
Scratch resistance	*****	
Heat resistance	****	
Chemical resistance	*****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

IN LINE TECHNOLOGY

WAX/RESIN – HT8+

IDEAL FOR: Vellum paper, coated paper, coated board, polymers, co-polymers (PE, PP, PVC, PET etc.) and flat box, board and flow line packaging.

MAIN FEATURES: HT8+ offers

- rub and smear resistance
- scratch resistance
- ladder bar codes at high speeds
- high-speed printing
- FDA Approved / Listed

COLOURS:

- Black
- Pantone available on request
- Standard colours: white

HT8+ is a wax/resin ribbon designed for In Line printers using edge or near edge print technology. It has a good smudge and scratch resistance and produces an excellent print quality on a wide variety of packaging substrates and label stocks.

Suitable receiving material	Comments
Vellum Paper, Coated Paper, Coated Board, Polymers, Co-Polymers (PE, PP, PVC, PET etc.), Flat box, board & flow line packaging.	HT8+ is ideal for high speed printing on a number of papers, plastics including PE, PP, PVC and PET and metalized foil . HT8+ is compatible with all major paper label manufacturers' product.

Printing Information		
Speed up to 500 Mm/Sec (H)		HT8+
	S	H
	T	4

L = Low M = Medium H = High
1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	****	HT8+ offers rub and smear resistance. It is also scratch and heat resistant.
Scratch resistance	***	
Heat resistance	***	
Chemical resistance	***	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 85% relative humidity Best results obtained with printing within 24 months of manufacturing date.



NEAR EDGE / FLAT HEAD TECHNOLOGY RESIN - HT70

IDEAL FOR: Synthetic materials (CPP, OPP, PET, NYLON etc.).

MAIN FEATURES: HT70 offers

- Scratch & Smear resistance
- Resistance to alcohol
- high temperature resistance

COLOURS: - Black

HT70 is a highly durable resin ribbon designed for Flat Head & Near Edge printers. HT70 is designed for printing onto food packaging, plastic films and synthetic materials with excellent print quality. This ribbon offers very good rub, scratch and smear resistance and resists high temperatures and alcohol after printing.

Suitable receiving material	Comments
Synthetic Materials (CPP, OPP, PET, NYLON etc.) Swing Tags	HT70 is compatible with all major paper label manufacturers' products. HT70 is ideal for printing onto plastic film, synthetic papers and packaging materials

Printing Information			
Speed up to 120 Mm/Sec (M)		HT8+	HT70
	S	H	M
	T	4	5

L = Low M = Medium H = High

1 = Low 5 = High

Quality	Rating	Comments
Smear resistance	****	HT70 offers a high level of quality as regards smear, scratch, solvent and heat resistance.
Scratch resistance	****	
Heat resistance	*****	
Solvent resistance	****	

* = Low ***** = Excellent

Further Information	Recommendations
Storage Shelf life	5°C to 35°C - 30% to 80% relative humidity Best results obtained with printing within 24 months of manufacturing date.

