

RIBBONS

Overview

- > Wax ribbons
- > Resin-enhanced wax ribbons
- > Solvent-free wax ribbons
- > Wax resin ribbons
- > Premium wax resin ribbons
- > Resin ribbons
- > Premium resin ribbons



Our brand is your guarantee

Every day Toshiba thermal transfer ribbons are relied on by businesses the world over to produce vital labelling for a huge variety of applications. Our ribbons are available in various grades for virtually any application in every market, from mass-produced short-term label printing and RFID tags, up to highly specialised identification techniques using advanced resin products.

Before a ribbon receives a certificate of approval by Toshiba, it must first undergo stringent tests to ensure its continuity and reliability in the field. In order to achieve this, tests are carried out on a variety of receiving materials – at every speed and temperature combination, on each printer type. Only after the tests have successfully been completed, will the ribbon receive our certificate of approval.

Toshiba is proud to offer some of the best quality printers available in the market place today, constantly striving to ensure that the ribbons, which are available for them, are of the same excellent standard.

Lower quality products can cause:

- > Variable print quality
- > Printhead damage
- > Invalidated warranties
- > Expensive downtime

As one of Europe's biggest thermal transfer ribbon suppliers, we are committed to quality and reliability to help your business grow. Designed and manufactured to truly demanding industry standards, there is no better choice. Like all our products, our consumables, too, are designed to improve printing efficiency, while at the same time reducing waste and minimising delivery and transportation costs. This not only saves you money, but also helps create a greener tomorrow.

- > **Designed and manufactured to work with Toshiba's thermal transfer printer range and their different printing technologies.**
- > **The Toshiba ribbons enhance the overall print quality and offer the best results possible.**
- > **As a result of years of research and development, Toshiba offers a wide range of approved ribbons for virtually any application – also including an amplitude of colour ribbons.**



WAX RIBBONS

Our range of wax ribbons is designed to meet the varied and demanding standards of the current labelling industry. These wax ribbons will print onto a wide range of labels stocks, from uncoated to high gloss papers and synthetics, providing clear, sharp printed images of text and barcodes.

Applications

- > For general purpose usage and light direct contact or handling
- > Ideal for usage in warehouses for bin and shelf-edge labelling or box-end packing

Key features

- > Excellent multi-receptor compatibility
- > Good sensitivity and low energy
- > Sharper printed images with good levels of blackness
- > Toshiba approved for maximum productivity

SPECIFICATIONS

| | AW1F | AW6F | SW3F |
|------------------------------------|---------------------------|------|------------------------|
| Melting point | 65°C | | 67°C |
| Ribbon thickness | < 9 µm | | 7,2 µm |
| PET thickness | 4.5 µm | | 4,8 µm |
| Backcoating | Silicon based | | |
| Max. Printing Speed | 300 mm/sec | | |
| Colour | Black | | |
| Storage | 5-35°C 20 – 80 % RH | | 5-35°C 20 – 85 % RH |
| Blackness (Macbeth D19C) | 2.1 ODR | | > 1,8 ODR |
| Mecanical resistance | No damage after x cycles: | | |
| | 30 | 40 | 100 |
| Heat resistance | 60°C | | |
| Solvent resistance | None | | |
| Head Type | Flat | | |

The specifications above are guidelines and vary depending on the substrates used. Contact us for an individual assessment. Using Toshiba ribbons ensures minimum wear on working parts and a better total cost of Ownership (TCO). Protect your printhead life and warranty by using only Toshiba ribbons which are tailor-made for Toshiba thermal printers.



RESIN-ENHANCED WAX RIBBONS

Offering excellent print density with superior mechanical and smudge resistance these premium quality ribbons combine the benefits of high performance and speed. This quality will suit many applications that would ordinarily need a more costly wax resin product.

Applications

- > Ideal for swing tags, tickets and all general label printing
- > Made to meet the most demanding of wax application needs

Key features

- > High-performance wax ribbons with increased smudge resistance and multiple receptor compatibility
- > Superior print density
- > High speed printing at low temperatures
- > Toshiba approved for maximum productivity

SPECIFICATIONS

| | AW5 | SW1 |
|------------------------------------|---------------------------------|------------------------|
| Melting point | 65°C | 75°C |
| Film thickness | < 9 µm | < 9 µm |
| PET thickness | 4.5 µm | 4.8 µm |
| Backcoating | Silicon based | — ¹⁾ |
| Max. Printing Speed | 300 mm/sec | 305 mm/sec |
| Colour | Black ● | |
| Storage | 5-35°C 20 – 80 % RH | 5-35°C 20 – 80 % RH |
| Blackness (Macbeth D19C) | 2.0 ODR | 1.8 ODR |
| Mecanical resistance | No damage after x cycles: 55 | Very good |
| Heat resistance | 100°C | 70°C |
| Solvent resistance | None | None |
| Head Type | Flat | |

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¹⁾ No information available

SOLVENT-FREE WAX RIBBONS

Designed for its high coverage ability, which is essential for the rough printing materials widely used in logistics, these wax ribbons are manufactured without the use of solvents (including the back coating) representing a considerable CO² saving compared to the same ribbon (with average dimensions) produced using a traditional process.

Applications

- > Widely used in logistics
- > For environmentally conscious companies and applications which require solvent-free material

Key features

- > Particularly adapted to all kinds of paper substrates
- > Very good sensitivity
- > Excellent blackness
- > Environmental friendly
- > Toshiba approved for maximum productivity

SPECIFICATIONS

AW7F

| | |
|------------------------------------|--|
| Melting point | 65°C |
| Ribbon thickness | < 9 µm |
| PET thickness | 4.5 µm |
| Backcoating | SolFree® |
| Max. Printing Speed | 300 mm/sec |
| Colour | Black, Blue, Red, Green, Gold ● ● ● ● ● |
| Storage | 5-35°C 20 – 80 % RH |
| Blackness (Macbeth D19C) | 2.2 ODR |
| Mecanical resistance | No damage after 10 cycles |
| Heat resistance | 60°C |
| Solvent resistance | None |
| Head Type | Flat |

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WAX RESIN RIBBONS

The wax resin formulations offer the perfect solution for quality label printing. Toshiba wax resin formulations will withstand extremes of weather conditions making them ideal for garden centres or builder's yards. The ink formula offers very good levels of mechanical resistance and performs well on a wide range of synthetic materials, and as with all Toshiba ribbon qualities, produce sharp and clear printed images and barcodes.






Applications

- > Ideal choice for all retail labelling, apparel, swing tags, outdoor applications or any print job that need needs good levels of quality printed information
- > Ideal whenever frequent direct contact or handling is needed
- > Made for printed matter which is subject to outdoor elements, e.g. swing tags and hang tags

Key features

- > Prints at low temperatures
- > High durability with super solvent resistance
- > Wide range of formulations
- > Toshiba approved for maximum productivity

SPECIFICATIONS

| | AG1E | AG2 | AG3 | AG6E | SG1F | SG5F |
|---------------------------------|--|---|---|--|--|---------|
| Melting point | 80°C | 80°C | 75°C | 80°C | 75°C | 84°C |
| Ribbon thickness | < 8 µm | | < 9 µm | < 8 µm | < 9 µm | < 7 µm |
| PET thickness | 4.5 µm | | | 4.0 µm | 4.8 µm | 4.5 µm |
| Backcoating | Silicon based | | | | — ¹⁾ | |
| Max. Printing Speed | 400 mm/sec | 800 mm/sec | 300 mm/sec | 700 mm/sec | 305 mm/sec | |
| Colour | Black  | Black, White, Orange, Brown, Blue, Cyan, Red, Green, Magenta, Yellow  | Black, White, Grey, Brown, Blue, Dark Blue, Red, Dark Red, Green, Dark Green  | Black, White, Orange, Brown, Blue, Cyan, Light Red, Light Green, Magenta, Yellow  | Black  | |
| Storage | 5-35°C 20 – 80 % RH | | | | 5-35°C 20 – 80 % RH | |
| Blackness (Macbeth D19C) | 1.8 ODR | 2.2 ODR | 2.1 ODR | 2.0 ODR | 1.8 ODR | 1.5 ODR |
| Mecanical resistance | No damage after x cycles: | | | | Very good | |
| | 60 | 70 | 60 | 75 | | |
| Heat resistance | 100°C | | | | 70°C | 170°C |
| Solvent resistance | None | | | | None | |

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¹⁾ No information available

PREMIUM WAX RESIN RIBBONS

Our premium wax resin qualities offer the same levels of excellence as our standard wax resin but with added smudge and mechanical resistance. Designed for applications that require “that little extra” they are a suitable alternative to more costly full resin, if the application is not quite so demanding.

Applications

- > Ideal for pharmaceutical and manufacturing
- > Extremely high print quality and enhanced mechanical resistance for wax resin applications which need that extra performance

Key features

- > Excellent sensitivity and receptor
- > Exceptional print quality at high-speed
- > High resistance to smudge
- > Toshiba approved for maximum productivity

SPECIFICATIONS

| | AG4 | AG4F | RG2 | RG2F | RG3 | RG4F | SG2 | SG3F |
|-------------------------------------|---|------------|------------------------|----------|-----------------|------------|------------------------|---------|
| Melting point | 85°C | | 84°C | | 65°C | 84°C | | 75°C |
| Ribbon thickness | < 9 µm | | | | | | | |
| PET thickness | 4.5 µm | | | | | | | 4.8 µm |
| Backcoating | Silicon based | | | | — ¹⁾ | | | |
| Max. Printing Speed | 700 mm/sec | 300 mm/sec | 254 mm/sec | | 305 mm/sec | 254 mm/sec | 305 mm/sec | |
| Colour | Black, Metalic White ● ● | | Black ● | | | | | |
| Storage | 5-35°C 20 – 80 % RH | | 5-35°C 45 – 85 % RH | | | | 5-35°C 20 – 80 % RH | |
| Blackness (Macbeth D19C) | 1.7 ODR | 2.1 ODR | 2.05 ODR | 2.03 ODR | 2.08 ODR | 1.98 ODR | 1.86 ODR | 1.8 ODR |
| Mecanical resistance | No damage after x cycles: 80 70 | | Good | | | | Very good | |
| Heat resistance | 110°C | 150°C | 110°C | 120°C | 110°C | 120°C | 70°C | |
| Solvent resistance | None | | | Moderate | None | | | |
| Head Type | Edge / Near Edge | Flat head | Near Edge | Flat | Near Edge | Flat | Near Edge | Flat |

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¹⁾ No information available



RESIN RIBBONS

Our standard resin qualities are designed to cover all harsh environmental conditions and applications. They are used in chemical, pharmaceutical, automotive and electrical industries offering high levels of resistance to heat, solvents, scratching, smudging and some detergents. Compatible with most synthetic PE, PP, PET materials and offering exceptional printhead protection.

Applications

- > Your best choice for printed images which are subject to extreme conditions
- > Made to survive heavy direct contact and wherever there is a chance of abrasion, heat or chemical contact, e.g. in the industrial, chemical or textile industry

Key features

- > High durability with super solvent resistance
- > Heat resistance of up to 180°C/200°C
- > Superior mechanical resistance
- > Toshiba approved for maximum productivity

SPECIFICATIONS

| | AS1 | AS1F | RS1 | RS1F | RS4F | SS1 | SS2 |
|---------------------------------|--|------------|--|-----------------|-----------|--------------------------|-------------------------|
| Melting point | 80°C | | 97°C | 83°C | 112°C | 125°C | 80°C |
| Ribbon thickness | < 9 µm | | < 9 µm | | | 5,8 µm | 9 µm |
| PET thickness | 4.5 µm | | | | | 4.5 µm | 4 µm |
| Backcoating | Silicon based | | | — ¹⁾ | | Silicon based | |
| Max. Printing Speed | 250 mm/sec | 250 mm/sec | 254 mm/sec | 102 mm/sec | 76 mm/sec | 102 mm/sec | 102 mm/sec |
| Colour | Black, White, Blue, Red, Green ● ● ● ● ● ● | | | Black ● | | | |
| Storage | 5-35°C 20 – 80 % RH | | 5-35°C 45 – 80 % RH | | | 5-35°C 20 – 80 % RH | |
| Blackness (Macbeth D19C) | 1.8 ODR | 1.7 ODR | 2.05 ODR | 1.57 ODR | 1.81 ODR | > 1.6 ODR | 1.4 ODR |
| Mecanical resistance | No damage after x cycles 95 | | | Good | | | |
| Heat resistance | 180°C | | 150°C | | 250°C | < 170°C | |
| Solvent resistance | No damage after x cycles ²⁾ : IPA: 5 Ethanol: 5 Mineral Spirit: 30 Motor Oil: 250 | | No damage after x cycles 40 160 250 | | | IPA: 50 KEROSENE: 200 | IPA: 10 KEROSENE: 10 |
| Head Type | Edge / Near Edge | Flat | Near Edge | Flat | | Edge / Near Edge | |

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¹⁾ No information available
²⁾ Rub test (939 g)

PREMIUM RESIN RIBBONS

As with our standard resin range these premium qualities can offer extra resistance to heat, (the printed image will withstand temperatures up to 250°C) solvents, unleaded petrol, brake fluid or strong industrial detergents and bleaching. Suited to a wide range of synthetic material, high gloss and matt coated papers and as with all Toshiba ribbon qualities, the back coating will offer exceptional print head protection.

Applications

- > For applications which require not only high quality but also resistance to mechanical aggression, temperature and solvents
- > Ideal for demanding circumstances in e.g. logistics, chemical or pharmaceutical industry

Key features

- > Superior mechanical and scratch resistance
- > Excellent resistance to solvents and high temperature
- > Excellent printing quality on textile material
- > Withstanding industrial dry cleaning and ironing
- > Toshiba approved for maximum productivity

SPECIFICATIONS

| | AS2 | AS2F | AS3 | AS3F | SS2F | SS3F |
|------------------------------------|--|--|--|------|-------------------------------|--------------------|
| Melting point | 85°C | | 80°C | 85°C | 168°C | |
| Ribbon thickness | < 9 µm | | < 8 µm | | | < 7 µm |
| PET thickness | 4.5 µm | | | | 4.8 µm | |
| Backcoating | Silicon based | | | | — ¹⁾ | |
| Max. Printing Speed | 203 mm/sec | | | | 305 mm/sec | |
| Colour | Black | | | | | |
| Storage | 5-35°C 20 – 80 % RH | | | | 5-35°C 45 – 85 % RH | |
| Blackness (Macbeth D19C) | 1.6 ODR | | | | 1.9 ODR | 1.8 ODR |
| Mecanical resistance | No damage after x cycles: | | | | Very good | |
| | 95 | | 100 | | | |
| Heat resistance | 250°C | | 200°C | | 220°C | 170°C |
| Solvent resistance | No damage after x cycles ²⁾ : | | Wash resistant Dry clean resistant Bleach Resistant Ironing Resistant | | Excellent ³⁾ | Good ³⁾ |
| | IPA: 200 Ethanol: 50 Mineral Spirit: 70 Motor Oil: 250 Unlead Petrol 98: 10 Break Fluid: 10 | IPA: 200 Ethanol: 80 Mineral Spirit: 70 Motor Oil: 250 Unlead Petrol: 98 10 Break Fluid: 10 | | | Not resistant against Acetone | |
| Head Type | Edge / Near Edge | Flat | Edge / Near Edge | Flat | | |

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¹⁾ No information available
²⁾ Rub test (939 g)
³⁾ Depending on substrate



OVERVIEW OF TOSHIBA RIBBONS

| | | Toshiba ribbon grades | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|-----------------------|-----|-----|----------|------|----------|----------|----------|------|-----|------|------|----------|-----|------|----------|------|------|-----|------|------|-----|-----|------|------|-----|------|---|
| | | AG1E | AG2 | AG3 | AG4/AG4F | AG6E | AS1/AS1F | AS2/AS2F | AS3/AS3F | AW1F | AW5 | AW6F | AW7F | RG2/RG2F | RG3 | RG4F | RS1/RS1F | RS4F | SG1F | SG2 | SG3F | SG5F | SS1 | SS2 | SS2F | SS3F | SW1 | SW3F | |
| Material | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wax | | | | | | | | | | • | | • | | | | | | | | | | | | | | | | | • |
| Resin-enhanced wax | | | | | | | | | | | • | | | | | | | | | | | | | | | | | • | |
| Solvent-free wax | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | |
| Wax resin | | • | • | • | | • | | | | | | | | | | | | | | • | | | • | | | | | | |
| Premium wax resin | | | | | • | | | | | | | | | • | • | • | | | | | • | • | | | | | | | |
| Resin | | | | | | | • | | | | | | | | | | • | • | | | | | • | • | | | | | |
| Premium resin | | | | | | | | • | • | | | | | | | | | | | | | | | | | • | • | | |
| Length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extra long length | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | |
| Compatible printers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flat Head Printers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-EX4T2 | | | | • | • | | • | • | • | • | • | • | • | • | | • | • | • | • | | • | • | | | | • | • | • | • |
| B-EX4T3 | | | | • | • | | • | • | • | • | • | • | • | • | | • | • | • | • | | • | • | | | | • | • | • | • |
| B-EX6T3 | | | | • | • | | • | • | • | • | • | • | • | • | | • | • | • | • | | • | • | | | | • | • | • | • |
| B-FV4T, B-SV4T | | | | • | • | | • | • | • | • | • | • | • | • | | • | • | • | • | | • | | | | | • | | • | • |
| B-SA4T | | | | • | • | | • | • | • | • | • | • | • | • | | | • | | • | | • | | | | • | | • | • | • |
| B-FV4T, B-EV4T (½" core) | | | | • | • | | • | • | • | • | • | • | • | | | • | | | • | | • | • | | | | | • | • | • |
| B-852 | | | | • | • | | • | • | • | • | • | • | • | • | | • | • | | • | | • | | | | | | • | • | • |
| Edge Head Printer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-SX4/5/6/8 | | • | • | | • | • | • | • | | | | | | • | • | | • | | | • | | | | • | • | | | | |
| B-EX4T1 | | • | • | | • | • | • | • | | | | | | • | • | | • | | | • | | | | • | • | | | | |
| B-EX6T1 | | • | • | | • | • | • | • | | | | | | • | • | | • | | | • | | | | • | • | | | | |

ABOUT TOSHIBA TEC

Toshiba Tec Belgium Imaging Systems is part of the globally operating Toshiba Tec Corporation, active in various high-tech industrial sectors.

Toshiba Tec Corporation is a leading provider of information technology, operating across multiple industries - ranging from retail, education and business services to hospitality and manufacturing. With headquarters in Japan and over 80 subsidiaries worldwide, Toshiba Tec Corporation helps organisations transform the way they create, record, share, manage and display information.



TOGETHER INFORMATION

Together Information is Toshiba's vision for how people and organisations create, record, share, manage and display ideas and data.

It is based on our belief that the most successful organisations are those that communicate information in the most efficient way.

We make that possible through an integrated portfolio of industry-specific solutions, all of which reflect Toshiba's commitment to the future of the planet.

For more information : www.togetherinformation.com

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