



## For near-edge printers

The AS1 is a new generation resin ribbon developed for applications requiring excellent mechanical and solvent resistance. It is the recommended product for use in harsh environment label printing for the chemical and pharmaceutical industries. The AS1 is compatible with most synthetic materials, and some matt and high gloss coated papers.

It will withstand temperatures of up to 180°C (356°F) and has a blackness of 1.8 (ODR). It is UL recognized and has BGA approval (EU direct food contact). It also offers the very best in printhead protection, as with all Toshiba ribbon products.

**Toshiba AS1 is the preferred choice for all images destined for harsh situations.**

## Characteristics

Excellent print quality	Multi receptor compatibility and sensitivity
Good resistance to high temperatures	Available in colours
Outstanding scratch and solvent resistance	

## Specifications (Performances expressed in this sheet are for the black ribbon)

<b>Ink</b>	Type	Resin
	Melting point	80°C (176°F)
<b>Carrier</b>	Film thickness	<9µm
	PET thickness	4.5µm
	Tensile strength	>300 N/mm <sup>2</sup> (MD)
<b>Back Coating</b>	Silicone product based	Friction coefficient Kd <0.2
<b>Colours</b>	● Black, ○ White, ● Dark blue (286 C), ● Dark red (192 C), ● Green (Green C)	

Ribbon is anti static build up treated. Storage: 12 months, 5-35°C (40-95°F), 20-80% Humidity

## Certifications and Approvals (For other standards, please contact us)

<b>LFGB</b>	Food contact (Europe)		UL/CSA Legibility and durability of the printed label.
	1935/2004/EC		
<b>Heavy metals</b>	EC 98/638.		
<b>Ames test</b>	The ribbon is not mutagenic, does not cause DNA modifications.		
<b>TSCA</b>	The ribbon does not contain any of the toxic substances mentioned in this list.		
<b>California Proposition 65</b>	The ribbon does not contain any of the chemicals mentioned in this list. (except for carbon black which as far as we know is present in every black TT ribbons).		
<b>EC Directives</b>	1999/45/EC and 2001/59/EC. The ribbon does not contain any substance classified as dangerous for health.		

## Always Choose Toshiba Ribbons for Toshiba Printers

The wide range of Toshiba ribbons available today ensures that our valued customers have different product options for virtually every thermal transfer application. Using Toshiba ribbons ensures optimum print quality causing minimum wear on working parts - in particular to the printhead.

Before a ribbon is certified by Toshiba it must first undergo stringent tests to ensure its continuity and reliability in the field. It is assessed on a variety of receiving materials, and at every speed and temperature combination. Only once this procedure is complete and deemed successful will the ribbon receive its certificate of approval.

This commitment to quality and reliability is what you would expect from Toshiba as the biggest thermal transfer ribbon distributor in Europe.

### Other Approved Ribbon Types Available

Standard applications	Wax	Wax/Resin
	Super wax resin	Full resin
Specialist resins for	Wash-care & textile labelling	Harsh chemical and industrial uses
	Extreme automotive and aviation environments	

Colour ribbons are also available in all qualities including HazChem orange.

### The Complete Toshiba Ribbon Range

	AW3	SW1	AG2	AG3	AG4	AG5	FG2	PG2	RG2	SG2	AS1	AS2	AS3	FS1	RS1	SS1
RIBBON TYPE																
General purpose wax	●	●														
General purpose wax resin (smearless)			●	●		●	●	●	●	●						
Scratch/solvent resistant resin											●			●	●	●
Economy resin/enhanced wax resin					●											
Specialist super resin												●				
Washcare textile resin													●			
PRINTER TYPE																
Old B series B-30, 402, 602, 65 & 63	●		●								●	●	●			
B-443, B-452, B-852, B-SV4T, & B-SA4T flat head printer	●	●	●	●						●	●	●	●			●
BX and SX near edge printer			●		●	●	●		●	●	●	●	●		●	
CB-416-T3 and CB-426-T3 colour printer			●				●	●			●	●	●	●		
CB-416-T1 colour printer			●				●				●	●	●			
AVAILABLE IN COLOUR	●		●	●	●		●	●			●				●	
PREMIUM KIT REQUIRED! (colour printer only)							●							●		

## TOSHIBA - leading the way through quality and innovation.

\*Please note that not using TOSHIBA approved ribbons affects any printer and printhead warranties offered by TOSHIBA Europe. All company and/or product names are trademarks and/or registered trademarks of their respective owners. All features and specifications are subject to change without notice.

All Toshiba's range of consumable products meet the current EU Directives for Health and Safety; ROHS; REACH; Banned Substances and Waste and Packaging.



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