

# TOSHIBA AS1 RESIN

## Preferred choice for harsh environments

The AS1 is a new generation resin developed to meet the needs of applications requiring excellent mechanical and solvent resistance.

The AS1 is compatible with most synthetic materials such as PVC, PET and PP, and some matt and high gloss coated papers; It will withstand temperatures of up to 180°C (356°F) and has blackness levels of 1.8 ODR. It is UL recognised (BS 5609 - subject to matching with the appropriate substrate) and has BGA approval for EU direct food contact.

## Smudge resistance

In Crockmeter tests printing is perfectly visible after 200 runs (at a pressure of 680 g/cm<sup>2</sup> load). The AS1 also offers the very best

in print-head protection as with all Toshiba approved ribbon products.

## Characteristics

- Excellent print quality.
- Good resistance to high temperatures.
- Outstanding scratch and solvent resistance.
- Multi-receptor compatibility and sensitivity.

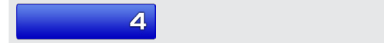
## Perfect application

This high performing grade is recommended for use in harsh environments such as chemical and pharmaceutical applications where quality, clarity and robust performance is required.

## Ribbon performance



### General purpose



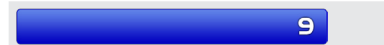
### Smear resistance



### Scratch resistance



### Chemical and solvent resistance



### Heat resistance



## Technical Specification

### Properties

Ink Type: Resin  
 Melting Point: 80°C (176°F)  
 Film Thickness: 4.5 µm max.  
 Back Coating: Silicone based  
 Ribbon Thickness: 9 µm max.  
 Optical Density Reflection: 1.8 min.

### Storage

Ribbon is antistatic build up treated: 12 months, 5-35°C (40-95°F), 20-80% relative humidity.

### Colours

Black, White, Dark Blue (286 C), Dark Red (192 C), Green (Green C).

### Compatible printers

#### Near-edge models

B-SX4, B-SX5, B-SX6, B-SX8, B-372, B-472, B-572, B-672, B-872, B-482, B-682, B-882, B-492.

#### Flathead models

B-EV4, B-442, B-443, B-452, B-852, B-SV4, B-SA4, B-SX600.

## Regulatory information

### Heavy metals

The ribbon does not contain heavy metals according to EC 98/638.

### Ames Test

The ribbon is not mutagenic, does not cause DNA modifications.

### TSCA - Toxic Substance Control Act

The ribbon does not contain any of the toxic substances mentioned in this list.

### CP 65 - California Proposition 65

The ribbon does not contain any of the chemicals mentioned in the list.

### EU Directives

The ribbon does not contain any substances classified as dangerous for health.

The ribbon conforms to the EU Directives 1999/45/EC, 2001/59/EC and 1935/2004/EC.

### RoHS - Restriction of Hazardous Substances

The ribbon does not contain any hazardous substances mentioned in the EU Directive 2002/95/EC.

## WEEE - Waste Electrical and Electronic Equipment

The ribbon conforms to the EU Directive 2002/96/EC.

### Certificates



**LFGB**  
Safe Food Contact.



**UL Approved**  
Readability and durability.



**BS 5609**  
The printed ink withstands immersion in sea water.

