TDR345

# TDR345

## PREMIUM FLAT HEAD RESIN

ADVANTAGE range

Barcoding the world!

## PRODUCT DESCRIPTION

This super high performance resin grade is manufactured using innovative ink technology to offer an excellent solution on the widest range of receiver materials. Traditionally, applications requiring maximum durability have required the possible use of various grades of resin ribbon. With this grade most applications, including steam resistance, can be met with one single resin product.

This grade combines low print energy with fast speeds to give crisp, dark prints on receiver materials extending from coated paper through to high end synthetics making it an extremely versatile product. It is also UL recognised/CSA approved and can be confidently specified with a wide range of proprietary label brands. This grade also offers the advantage of being Halogen free making it an ideal product for use in industries which have banned the use of Halogens.

## RECOMMENDED SUBSTRATES

Coated paper, synthetic paper, polyolefin, polyester, polypropylene, polyethylene, Vinyl

## PERFORMANCE PROPERTIES

**PRINT SENSITIVITY** 9

**HEAT RESISTANCE** 8

**ABRASION RESISTANCE** 9

**SOLVENT RESISTANCE** 7

**LABEL ADAPTABILITY** 9

## COMPLIANCE CERTIFICATIONS

REACH · RoHS2.0 · UL/CSA · ISO · MSDS

## TYPICAL APPLICATIONS

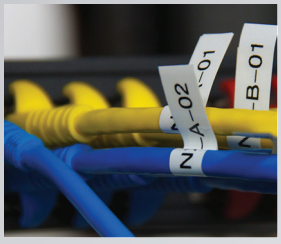
AUTOMOTIVE · OUTDOOR · HEALTHCARE · SHRINKWRAP

GENERAL · EXTREME ENVIRONMENTS · SIGNAGE · CHEMICAL DRUM

ASSET TRACKING · CIRCUIT BOARD · ELECTRONIC COMPONENTS · AGENCY










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## PREMIUM FLAT HEAD RESIN

- Low printhead energy required for a resin ribbon
- Excellent durability for chemical & industrial applications
- Extensive abrasion, steam and heat resistance (heat resistant up to 300°C)
- Halogen free
- Resistant to a wide range of chemicals and solvents
- Print quality at high speeds up to 152 mm/sec
- Excellent print definition for clean, durable and dense barcodes
- UL/CSA approved

HALOGEN FREE

### FLAT HEAD TECHNOLOGY GRADES*

| | |
|---|---|
| TDW100 | **Premium Wax**<br>Best choice for general purpose labelling |
| TDW136 | **High Performance Wax**<br>General purpose labelling with extra durability |
| TDM200 | **Premium Wax Resin**<br>Great print performance with very good durability |
| TDM242 | **High Performance Wax Resin**<br>Great print performance with excellent scratch resistance |
| TDR345 | **Premium Resin**<br>Extra scratch resistance on synthetic labels |

*The above grades are for use with flat head technology printers. We also offer grades for near edge technology printers and thermal transfer coders. We offer further specialist resin ribbon formulations for textile printing with wash resistance, resistance to high heat, chemicals and solvents. Please consult our made to measure range for more information.

### RIBBON SPECIFICATIONS

| DESCRIPTION | TECHNICAL |
|---|---|
| BASE FILM CARRIER | 4.5 Micron Polyester |
| TOTAL RIBBON THICKNESS | 6.5 Microns ± 0.3 |
| INK TYPE | Resin (flat head technology) |
| COLOUR | Black |
| INK MELTING POINT | 100 ± 3 °C |
| DENSITY | 2.01 |

### RIBBON STORAGE CONDITIONS

| DESCRIPTION | TECHNICAL |
|---|---|
| TEMPERATURE | 5°C - 35°C (41F - 95F) |
| HUMIDITY | 20% - 80% relative humidity |
| LIGHT | Avoid direct sunlight |

### CERTIFICATIONS AND APPROVALS

| DESCRIPTION | TECHNICAL |
|---|---|
| ISO 9001:2015 & ISO 14001:2015 | All ribbons have been manufactured to these international quality standards |
| RoHs/WEEE | EC directives 2012/19/EU and 2011/65/EU, compliance to the limitation of dangerous substances in electrical and electronics equipment |
| HEAVY METALS | 94/62/EC & 2011/65/EU |
| TSCA/CP 65 | The ribbon does not contain any of the substances on this list |
| AMES TEST | The ribbon is not mutagenic, does not cause DNA modifications |
| EC DIRECTIVES | 1999/45/EC and 2001/59/EC. This ribbon does not contain any substance classified as dangerous for health |
| FOOD CONTACT | 1935/2004/EC |
| REACH/SVHC | Does not contain any of the SVHCs listed - 1907 / 2006/EC |
| DISPOSAL | To be disposed of as mixed industrial waste |

This information is the best available on the above ribbon grade and should only be regarded as a general guide to material properties and not a guarantee.

Todaytec Group Europe

CALOR REGMA TTS Thermal Transfer Solutions

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