

# ADVANTAGE range

## TDR345

**PREMIUM FLAT HEAD RESIN**

### 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

LOW

MEDIUM

HIGH

### TYPICAL APPLICATIONS



AUTOMOTIVE



OUTDOOR



HEALTHCARE



SHRINKWRAP



GENERAL



EXTREME  
ENVIRONMENTS



SIGNAGE



CHEMICAL  
DRUM



ASSET  
TRACKING



CIRCUIT  
BOARD



ELECTRONIC  
COMPONENTS



AGENCY



# TDR345

## PREMIUM FLAT HEAD RESIN

### PERFORMANCE CHARACTERISTICS

- Low printhead energy-extra advantage 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 204 mm/sec
- Excellent print definition for clean, durable and dense barcodes
- UL/CSA approved

### Flat Head Technology Grades\*

<b>TDW108</b>	<b>Premium Wax</b> Best choice for general purpose labelling
<b>TDW136</b>	<b>High Performance Wax</b> General purpose labelling with extra durability
<b>TDM200</b>	<b>Premium Wax Resin</b> Great print performance with very good durability
<b>TDM242</b>	<b>High Performance Wax Resin</b> Great print performance with excellent scratch resistance
<b>TDR345</b>	<b>Premium Resin</b> Extra scratch resistance on synthetic labels
<b>TDR380</b>	<b>Premium Textile Resin</b> Excellent print on textiles with wash resistance

\*These ribbon grades are for use with flat head technology printers. We also offer ribbons grades for near edge technology printers and thermal transfer coders.

### RIBBON SPECIFICATIONS

DESCRIPTION	TECHNICAL
BASE FILM CARRIER	4.5 Micron Polyester
TOTAL RIBBON THICKNESS	5.8 Microns +/- 0.02
INK TYPE	Resin (flat head technology)
COLOUR	Black
INK MELTING POINT	70°C
DENSITY	2.0

### RIBBON STORAGE CONDITIONS

DESCRIPTION	TECHNICAL
TEMPERATURE	5°C to 35°C (41F to 95F)
HUMIDITY	10% to 85% 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 standard
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. These results should, however, only be regarded as a general guide to material properties and is not a guarantee.



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