



# Technical Data Sheet

## TTR

### THERMAL TRANSFER GENERAL PERFORMANCE WAX RIBBON

**GENERAL DESCRIPTION:**

TTR is a general-purpose premium wax thermal transfer ribbon. This ribbon is offers the flexibility of wax with a small advantage of resin. It has high sensitivity for high speed printing with assurance of consistently high printing quality.

**USES:**

Ideal for printing on matte and coated paper materials where regular wax ribbons will have a tendency to smear. This ribbon offers a slightly better performance than a standard wax ribbon. Other applications include shipping labels and industrial bar code applications requiring standard durability. This ribbon has good smudge and scratch resistance.

**FEATURES:**

This ribbon is designed for printing on paper label materials. This ribbon offers average smudge and abrasion-resistance. Black opaque ribbon that has excellent clarity and crispness. This ribbon due to the wax base will burn at lower temperature on thermal transfer printers. "Smudge test of 50 cycles @ 500 grams with cotton cloth and scratch test of 20 cycles @ 200 grams with stainless steel pointed tip."

**RECOGNITION(S):**

RoHS Directive 2002/95/EC Complaint

**PHYSICAL PROPERTIES**

**TEST METHODS**

**CONVENTIONAL S.I. UNITS UNITS**

**THICKNESS**

Ink Thickness	0.13 mils	3.3 microns
Ribbon backing	0.19 mils	4.8 microns
Total	0.32 mils	8.1 microns
Tolerance +/- .02 mils/. 5 microns		

**SERVICE TEMPERATURES**

Based upon material it is printed on

**STANDARD BURN TEMPERATURES**

7-12 on a Zebra Printer on paper

**WARRANTY**  
"Our products are sold with the understanding that the buyer will test them in actual use and determine for himself their adaptability to his intended uses. We warrant to the buyer that our products are free from defects in material and workmanship. This warranty is in lieu of any other warranty, expressed or implied"

**EXTERIOR  
DURABILITY**

No test data available. Recommended for indoor use.

**CHEMICAL RESISTNACE:**

Test should be conducted at room temperature after 24-hour dwell. Testing should consist of five cycles of 10 rubs with a cotton swab soaked in the chemical. There is a 10-minute recovery time between rubs.

**CHEMICAL REAGENT: LABEL STOCK: PRINTED WITH THE TTR RIBBON:**

	<b>TT728</b>	<b>TT722</b>
Water	No effect	No effect
Isopropyl Alcohol	Smears	Removed

**STOARGE CONDITIONS**

Product should be stored at 70°F (21°C) and 40-50% relative humidity to ensure optimal performance.

**SHELF LIFE:**

6 Months @ proper storage conditions.