



Technical Data Sheet

TTRR-N

THERMAL TRANSFER HIGH PERFORMANCE RESIN RIBBON

GENERAL DESCRIPTION:

TTRR-N is a high performance resin thermal transfer ribbon. It is backed with polyester liner and gives a consistently high printing quality.

USES:

Ideal for printing on matte and coated film materials. Ideal for use where chemical, abrasion, and heat durability is required. Other applications include rating plates, component marking and industrial bar code applications requiring excellent durability.

FEATURES:

This ribbon is designed to offer superior smudge and solvent resistance. This ribbon can be used in a circuit board application and can withstand temperatures up to 250°C based upon the material temperature requirements. This ribbon offers excellent ink lay down on ultra fine print or high-density barcodes. Highly opaque ribbon that has excellent clarity and crispness. The ribbon image is still legible after 200 passes of 680-g/cm² weight.

RECOGNITION(S):

RoHS Directive 2002/95/EC Compliant

PHYSICAL PROPERTIES

TEST METHODS

CONVENTIONAL UNITS S.I. UNITS

THICKNESS

Ribbon w/backing	0.12-0.16 mils	3.0-4.0 microns
Ribbon Carrier (poly)	0.18 mils	4.5 microns
Total	0.3-0.34 mils	7.5-8.5 microns

SERVICE TEMPERATURES

Based upon material it is printed on, maximum 250°C, can possibly withstand higher temperatures, but should be tested in the actual application

STANDARD BURN TEMPERATURES

20-29 on a Zebra Printer
Lower burn on glossy materials and higher on matte

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.

CHEMICAL RESISTNACE:

Test should be conducted at room temperature after 24 hour dwell. Testing consists of pressure rubs of 262 g/cm² on a glossy polyester material

CHEMICAL REAGENT: PRINTED WITH THE TTRR-N RIBBON:

Glossy Polyester

Unleaded fuel	No effect- 15 rubs
Mineral spirits	No effect- 200 rubs
Oil	No effect- 200 rubs
Brake fluid	No effect- 15 rubs

STOARGE CONDITIONS

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

SHELF LIFE:

6-12 Months @ proper storage conditions.