DNP Technical Data Sheet

# TR6080 High Performance Wax/Resin

## Product Description

TR6080 is a versatile ribbon that prints on a wide variety of substrates. It provides superior scratch and smudge resistance on paper and synthetic substrates and provides durability comparable to resin ribbons on select labels.

## Recommended Applications


Automotive


Health & Beauty


Inventory & Logistics


Outdoor


Pharmaceutical


Retail

## Recommended Substrates

| | |
|---|---|
| Paper | Gloss paper |
| Economy Synthetics | Polpropylene |
| | Top-coated vinyl |
| | Polyethylene |
| | Polystyrene |
| | Polyolefin |
| Specialty Materials | Coated/uncoated Valeron® |
| | Tyvek® |
| | Tyvek Brillion® |
| | Coated/uncoated V-max® |

## Performance Characteristics

Prints on a wide variety of substrates from rough label stocks to high-gloss paper
Prints at high speeds (up to 12 IPS)
Enhanced smudge and scratch resistance
High performance backcoat protects the printhead
Unbeatable edge definition for dark, dense images and improved scan rates
Excellent durability

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## TR6080 High Performance Wax/Resin

### Ribbon Properties

| Description | Result | Test Method |
|---|---|---|
| Ink | Wax/Resin | |
| Color | Black | Visual |
| Total Thickness | 8.2 ± 0.5µ | Micrometer |
| Base Film Thickness | 4.8 ± 0.3µ | Micrometer |
| Ink Thickness | 3.4 ± 0.2µ | Micrometer |
| Ink Melting Point | 75°C (167°F) | Differential Scanning Calorimeter |

### Durability of Printed Image

Label Stock: Fasson 1C  Print Speed: 6 IPS

| Description | Result | Test Method |
|---|---|---|
| Print Density | > 1.80 | Densitometer |
| Smudge Resistance | A* | Colorfastness Tester - 50 Cycles @ 500 Grams with Cotton Cloth |
| Scratch Resistance | A* | Colorfastness Tester - 20 Cycles @ 200 Grams with Stainless Steel Pointed Tip |

*American National Standard Institute (ANSI) Grade Levels A, B, C, D, and F, where A is excellent, B is above average, C is average, D is below average, and F is poor.

### Conversion Chart

| | |
|---|---|
| Millimeters (mm) to Inches = mm ÷ 25.4 | Inches to Millimeters (mm) = Inches ÷ 0.03937 |
| Meters (m) to Feet (ft) = m ÷ 0.3048 | Feet (ft) to Meters (m) = Feet ÷ 3.2808 |
| C° to F° = (1.8 X C°) + 32 = F° | F° to C° = (F° ÷ 1.8) - 17.77 |
| Thousand square inches (MSI) to $m^2$ = MSI X 0.645 | MSI = $m^2$ ÷ 0.645 |

*The information on this data sheet was obtained in DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.*

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