DNP Technical Data Sheet

TR5080 Specialty Wax/Resin

Product Description

TR5080 is specifically developed to cover the widest possible range of flood coated label applications. It performs well on the various inks used on spot-coated and flood-coated labels, eliminating the tendency for the label to slip during the printing process. TR5080 eliminates the need for the use of thermal transfer varnishes on flood-coated labels, thereby reducing the total label cost. This specialty wax/resin ribbon features DNP's SmoothCoat™ backcoat and our exclusive anti-static properties for easier handling and extra printhead protection.

Recommended Applications

Pharma & Healthcare | Food & Beverage | Inventory & Logistics | Horticulture | Outdoor | Textile

Recommended Substrates

Paper	
Paper coated	●●●
Paper flood-coated	●●●
Papier synthetic	●●●
Papier uncoated	●●●
Papier vellum	●●●
Papier gloss	●●●

Synthetics	
PP	●●●
PE	●●●
Valeron®	●●●
Kimdura®	●●●
Polyart®	●●●
Polyester	●●●

Performance Characteristics

- Ideal for printing on spot-coated and flood-coated labels
- Prints at high speeds (12 IPS) delivering crisp, rotated bar codes
- Features DNP's SmoothCoat™ backcoat
- Eliminates the cost of special varnishes
- Prints at high resolutions (400 dpi+)
- Unbeatable edge definition for dark, dense images and improved scan rates
- Anti-static for easy handling and extended printhead life

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Ribbon Properties

Description	Result	Test Method
Ink	Wax (resin-enhanced)	
Color	Black	Visual
Total Thickness	8.0 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	3.2 ± 0.2µ	Micrometer
Ink Melting Point	75°C (167°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: Coated Paper 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

Confirmation Certificates

ISO REACH RoHS ISEGA

for more info!

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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