DNP Technical Data Sheet

TR3021, 22, 23 General Purpose Wax
Red Blue Green

Product Description

Based on DNP's proven wax technology, these quality ribbons expand your color possibilities while providing excellent print clarity and high smudge resistance when black just isn't enough. These ribbons are also specially formulated with DNP's backcoat technology for printhead protection.

TR3021 Red
PMS 1787C

TR3022 Blue
PMS 286C

TR3023 Green
PMS 3405C

Colors may vary by substrate

PMS = Pantone Matching System

Recommended Applications

Inventory & Logistics

Outdoor

Retail

Recommended Substrates

Paper	Coated/uncoated paper & tag stocks Synthetic paper
Economy Synthetics	Polypropylene Top-coated vinyl Polyethylene Polyolefin
Specialty Materials	Tyvek® Tyvek Brillion®

Performance Characteristics

Halogen-Free (TR3022 Blue)
Provides excellent print clarity and is highly smudge resistant
Prints at high speeds (12 IPS) delivering crisp, rotated bar codes
Features DNP's SmoothCoat® backcoat
Unbeatable edge definition for dark, dense images and improved scan rates

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Ribbon Properties

Description	Result	Test Method
Ink	Wax	
Color	Red, Blue, Green	Visual
Total Thickness	8.4 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	3.6 ± 0.2µ	Micrometer
Ink Melting Point	72°C (162°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: Coated Paper Print Speed: 6 IPS

Description	Result			Test Method
	Y	M	C	
Print Density - Red	0.84 - 1.18	1.24 - 1.90	0.01 - 0.26	Densitometer
Print Density - Blue	0.08 - 0.56	0.85 - 1.57	1.18 - 1.94	Densitometer
Print Density - Green	0.63 - 1.41	0.28 - 0.50	1.47 - 2.15	Densitometer

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

OHSAS 18001 ISO 9001 ISO 14001 REACH COMPLIANCE RoHS 2 COMPLIANT

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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