

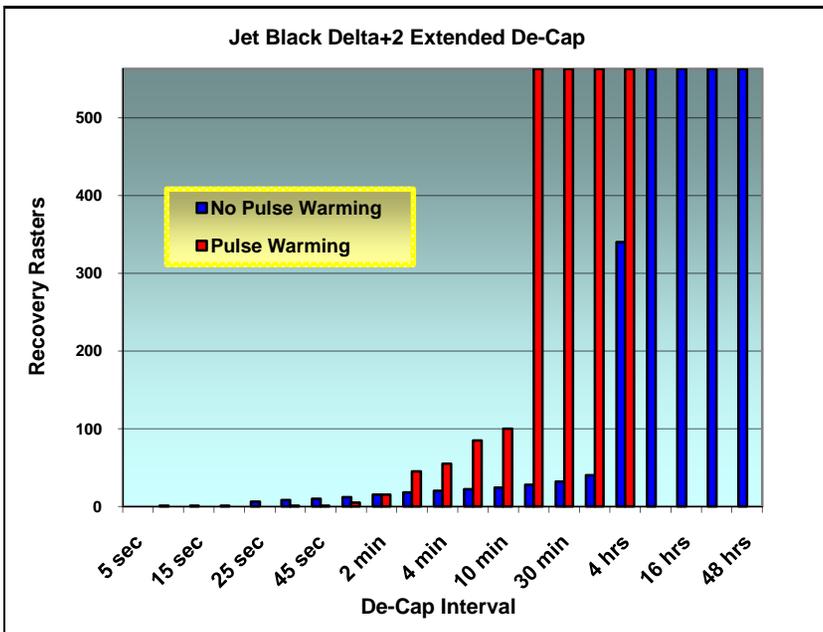
GENERAL INK DESCRIPTION

Fast drying dye based ink with good optical density for printing on porous, clay coated and aqueous coated primary cartons.

Chemical Information

Colorant	Primary Solvents	Other Additives
Dye	Water	none

De-Cap Characteristics



Application Information (600/300 dpi)

KEY	LUMBER	KRAFT CORRUGATED	STD. COPY PAPER	GLOSSY COPY PAPER	GLOSSY MAGAZINE COVER	FOIL LAMINATE	EMBOSSED PAPER	TYVEK	PLASTIC CARDS (PVC)	TOPCOATED POLYETHYLENE
GOOD (4-5)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
FAIR (2-3)	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
POOR (0-1)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
ADHESION	Green	Green	Green	Green	Blue	Green	Green	Green	Red	Red
DRY TIME	Green	Green	Green	Green	Red	Green	Green	Green	Red	Red
PRINT QUALITY	Green	Green	Green	Green	Green	Green	Green	Blue	Blue	Blue
PRINT CONTRAST	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

Operating Parameters

Minimum Reflectance (white paper)	4%
PCS (white paper)	94%
Avg. Bar Width (white paper)	+0.10X
Tested Pen Drive Voltage	10.6V
Tested Fire Pulse Length	2.0 μ s
Tested Pulse Warming Temperature	45°C
Maximum Operating Frequency (Continuous)	15 kHz
Maximum Throughput	not yet determined

1) **Minimum Reflectance (Rd)** - the reflectance of the ink as measured by the PSC Quick Check 800 Verifier.

2) **PCS (Print Contrast Signal)** - commonly used traditional measure of print contrast. $PCS = (RI - Rd)/RI$ where RI is the maximum reflectance of the light (spaces) and Rd is the minimum reflectance of the dark (bars) of a barcode scan.

3) **Avg Bar Width** - the average bar "growth" or "loss" relative to its "X" dimension. The "X" dimension is the unit dimension for a given barcode. It is used here as a comparative measure of ink bleed characteristics.

*NOTE: Test barcode used is a UPC12 barcode 2" long (optimized for resolution at 600/300 dpi).