Resolution 4C Process

Gans Ink & Supply is the only ink manufacturer to finally solve the age old problem of combining ultra-high gloss with ultra-fast set speed! We named this process series Resolution because on multiple print tests it achieved the highest quality print resolution, at the fastest production speeds, with the glossiest appearance and fastest set speeds we’ve ever seen from any ink!

TECHNICAL PERFORMANCE DATA

Resolution Item Numbers
Black- A133064  Cyan- A133065
Mag- A133066  Yelo- A133067

Ink Hue/Chroma
Gans Resolution process series has been formulated to meet ISO 12647-2 (Commercial Printing) tolerances for Hue and Chroma. However, due to the extremely high overprint trap values, Resolution will allow you to achieve a wider color gamut than other ISO compliant process inks!

Ink Tack Readings
Black-14  Cyan-14  Mag-13.5  Yelo-11
The above tack readings are taken at 1200 RPM, 1 minute, 90° F, Thwing Albert 101 Inkometer.

Set Speed
Gans Resolution process series rated 393 out of 400 on Gans’ internal scale for set speed on a #1 gloss coated sheet, making this series the FASTEST setting process inkset Gans Ink has formulated to date!

Scuff-Resistance
Overall, this process inkset rated a 29 out of 40 on Gans’ internal scale for scuff-resistance. This test is performed on a #1 gloss coated sheet, without aqueous coating, 24 hours after printing. Resolution will resist scuffing well on gloss coated paper. Post-processing on matte or dull stocks should be considered, due to the fragile nature of those paper surfaces.

Solid Overprint Trapping
At the above solid ink densities on a #1 gloss sheet, Resolution trapped better than every competitors inks compared.
Red- 85%  Green-97%  Blue- 74%

Solid Ink Densities After 24 hrs
Black-1.70  Cyan-1.35  Mag-1.45  Yelo-1.00
The above measurement device settings are: Illuminant D65, 2° observer angle, Status T, without polarization or UV filters. Paper white has been zeroed out. Print testing on a #1 gloss sheet, without aqueous coating, has shown extremely low density dryback of only (in density points):
Black-9  Cyan-3  Magenta-2  Yellow-2

Dot Gain @ 50%, AM 175 Line
At the above ink densities on a #1 gloss sheet, with no AQ, Gans Resolution printed extremely sharp, even at 15,000 IPH!
Black-18%  Cyan-14%  Mag-12%  Yelo-14%

Stay Open (Skin-time)
Gans Resolution process series will not begin to develop a skin in the can or the fountain for at least 5 days. Extreme ambient temperatures will affect this stay open period.

Ink Glossiness
At a 60° angle Resolution showed a gloss reading of 77.4 units over 340% ink coverage on a #1 gloss coated sheet, without aqueous coating. Compare this to other quick-set inks that only measure in the 60’s to low 70’s! Additionally, because of Resolution’s ultra fast set speed, aqueous coated images will achieve higher gloss levels as well!

Post Processing
This process series is considered finishing friendly and can be UV coated or foil embossed after 48 hours. These inks are considered laser imprintable on uncoated paper, although pre-testing is always required for guaranteed performance.

Contact Gans today to improve your Resolution, and to learn more about our full-range of process control services!