

Innova Supernova Chrome Gloss Vs. Digital Chromogenic Papers

Eric T. Kunsman

The Innova Supernova Chrome Gloss is a dye-sublimation that is the closest paper that mimics the traditional Ilfochrome Deluxe paper from years ago. The encapsulation of the dye ink within the surface of the paper allows for the pearlescence of the mimic and colorant to act as one unit. Therefore, the paper's characteristics closely match Ilfochrome. The susceptibility to surface scratching and fingerprint marking is similar to Ilfochrome Deluxe Gloss.

SPECIFICATIONS

Innova Supernova Chrome Gloss

Printer: Epson F6070 with Wasatch RIP

Flatbed Heat Press: 46 PSI, Temperature 204°C (400°F), for 3min

Transfer Process: All Supernova test prints were produced using a Flatbed Heat Press with a piece of heat-resistant, very smooth board underneath the Supernova and transfer paper. On top of the Supernova and transfer paper was a sheet of Mohawk Color Copy 100#Cover, a Silicon Sheet, and a Teflon Sheet on the top.

Digital Chromogenic Papers

Papers: Kodak Metallic, Kodak Endura Luster, Fuji Maxima

Printer: RIT ISL Lab, Durst I 30

Processing: Kodak Ektacolor Chemistry (Q-Lab verified) in a Kreonite paper processor.

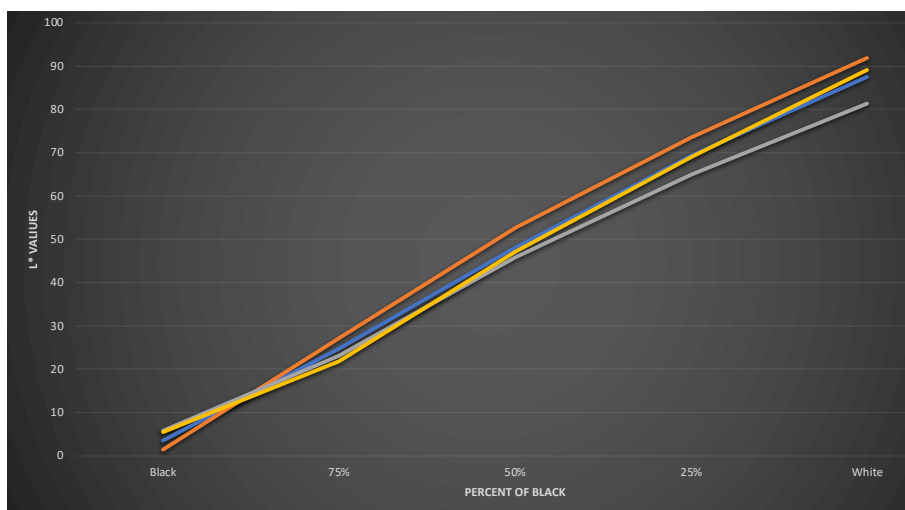
Paper White Points and Maximum Density per paper in L* values.

White L* Values	L*
Fuji Maxima	87.50
Innova Supernova Chrome Gloss	91.97
Kodak Endura Lustre	89.22
Kodak Metallic	81.30

L* Value of 100 is absolute White

Black L* Values	L*
Fuji Maxima	3.55
Innova Supernova Chrome Gloss	1.41
Kodak Endura Lustre	5.47
Kodak Metallic	5.81

L* Value of 0 is absolute Black



The Innova Supernova Chrome Gloss has the brightest L* value while also having the deepest black.

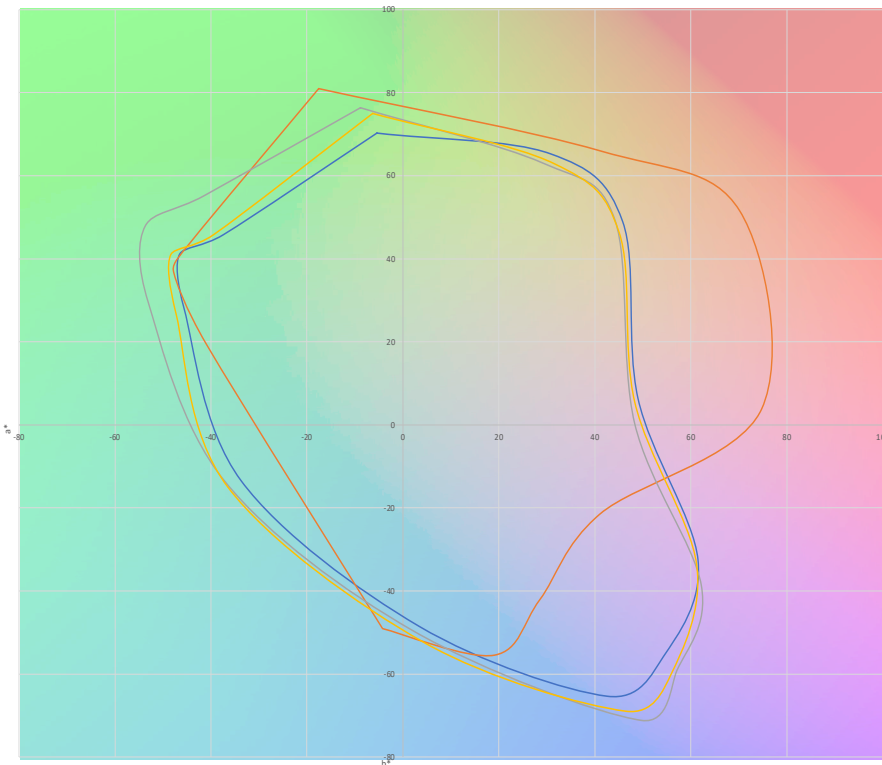
- Fuji Maxima
- Kodak Endura Lustre
- Kodak Metallic
- Innova Supernova Chrome Gloss



Eric T. Kunsman, Assistant Professor in the Visual Communications Studies Department at RIT/NTID. He also provides industry training at the Printing Applications Lab at RIT.

etknai@rit.edu

www.erickunsman.com



Color Gamut

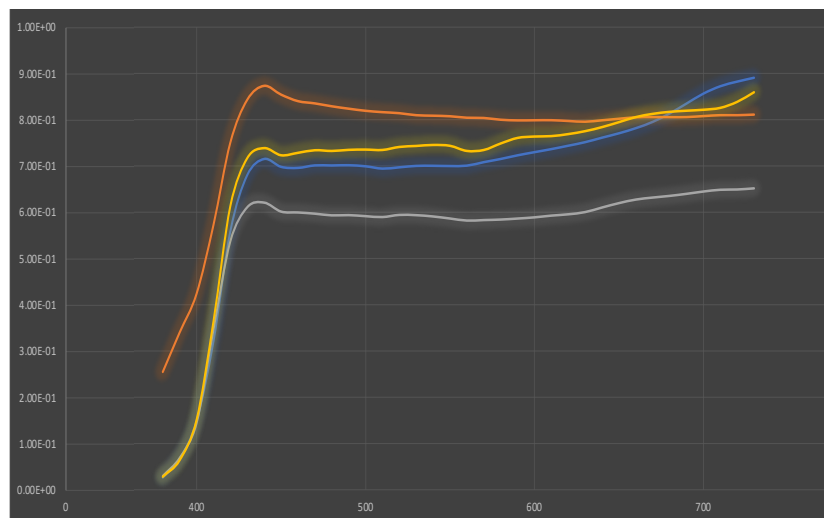
- Fuji Maxima
- Kodak Endura Lustre
- Kodak Metallic
- Innova Supernova Chrome Gloss

Color Gamut

The Innova Supernova Chrome Gloss color gamut is wider in the red and orange regions and weaker in the purple & magenta regions as compared to the Digital Chromogenic papers. The Kodak Metallic has the widest gamut within the green area of all papers this comparison represents.

Paper White Point, Spectral

The paper white point of the Innova Supernova Chrome Gloss is higher in the blue to the green region than the Digital Chromogenic papers. This is due to the paper whiteness and the presence of OBA's, just as the chromogenic prints contain.



Paper White Point, Spectral

Paper Gloss

The paper gloss values of the papers compared illustrate the gloss values for the Kodak Metallic and Innova Supernova Chrome Gloss as the highest of the paper compared.

Paper Gloss	60°	85°
Fuji Maxima	54.93	69.10
Innova Supernova Chrome Gloss*	98.10	98.43
Kodak Endura Luster	40.70	46.77
Kodak Endura Matte	61.23	77.27
Kodak Metallic	129.67	99.30

* Supernova reading after sublimation process

Paper Gloss