



TECHNICAL INFORMATION

ROLLER INKS

1. General Information:

These Roller inks are suitable for Roller pen plastic and metal cartridges and direct fill Roller pens.

Pen manufacturer should evaluate their components with these inks.

These inks are distinguished by especially well balanced properties. This assortment satisfies nearly all customer requests due to a high degree of reliability and experience.

All inks are dye base suitable for 0.3 mm, 0.4 mm, 0.5 mm & 0.6 mm SS and Ni/Ag tips.

2. Physical data and special properties:

Roller Inks

Ink Description	Final F/N	Item #	Quality	Color	Viscosity CPS @25° C	Specific Gravity @ 25° C Grams / CC	pH @ 25° C	Surface Tension @ 25° C Dynes / cm	Light Fastness
Roller Ink # 38149	A	NA	Deluxe	Black	4.5 ± 0.6	1.090 ± 0.02	7.5 ± 1.0	37 ± 3	Excellent
Roller Ink # 38150	A	NA	Deluxe	Blue	4.5 ± 0.6	1.080 ± 0.02	5.0 ± 1.0	38 ± 5	Excellent
Roller Ink # 38151	B	NA	Deluxe	Red	4.0 ± 0.6	1.090 ± 0.02	7.3 ± 1.0	38 ± 5	Excellent
Roller Ink # 38152	A	NA	Deluxe	Green	4.3 ± 0.6	1.080 ± 0.02	7.0 ± 1.0	37 ± 5	Excellent

All Inks are ASTM D-4236 and EN 71 Panel approved. The finished Gel Pen needs separate ASTM D-4236 approval.

The information given herein is based on our current knowledge and experience. In view of the many factors that may affect processing and application. These claims do not relieve processors from the responsibility of carrying out their own tests and experiments. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.