

# TECHNICAL INFORMATION

## 1. THE SUBJECT

◇ MPL 900 PROCESS 4 COLORS INK

## 2. LABORATORY CONDITIONS

◇ ROOM TEMPERATURE : 25 ± 1°C

◇ ROOM RELATIVE HUMIDITY : 60 ± 5%

## 3. TEST METHOD

◇ T.V (Tackness Value) : Value at 400r.p.m. by ink-o-meter (30°C)

◇ VISCOSITY (dPa.s) : dPa.s

◇ DENSITY : Reflecting density.

◇ FLOW : Measured the ink flowed length on the Glass with 70° angle at 10minute.  
(Ink volume : 1.31cc)

◇ GLOSS : Value at 60° angle by gloss meter.  
(MICROGLOSS 155, Made in England)  
(Substrate : 100g/m<sup>2</sup> coated paper, ink mass : 0.075 cc)

◇ SETTING TIME : Measured with each interval time of 1minute by RI-Tester (min.)

◇ DRYING TIME : Paper – Transfer RI-Tester 6 separated roller  
(Ink volume : 0.05cc, H<sub>2</sub>O : 8Drops)

◇ SKINNING TIME : Glass – Applied ink drying time on glass.

◇ RUB RESISTANCE : Measured by rub-resistance tester (4lbs x 50cycles at 400r.p.m.)

◇ PARTICLE SIZE : Tested by Grinding gage (N.P.I.R.I)

## 4. TEST RESULT

Description	Magenta	Yellow	Cyan	Black
Tack Value	10.5 ±0.5	9 ±0.5	11.5 ±0.5	10.5 ±0.5
Viscosity	44.1	26.5	45.2	37.1
Density	1.51	1.1	1.61	1.71
Flow	14 ~ 19	15 ~ 19	14 ~ 17	16 ~ 20
Gloss	80	89	78	90
Setting Time	6 min ↓	6 min ↓	6 min ↓	6 min ↓
Drying Time	6 hr ↓	6 hr ↓	10 hr ↓	6 hr ↓
Skinning Time	17 hr ↑	17 hr ↑	24 hr ↑	17 hr ↑
Rub Resistance	2 ↓	2 ↓	2 ↓	2 ↓
Particle Size	12.5 μ	12.5 μ	12.5 μ	12.5 μ