4/29/2005

Product Specifications

Product Name	Pantone Yellow
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 88.04 a* : -3.20 b* : +107.2 ⊿ E ≦ 3.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	1.29±0.06		Densitometer (Screen DM-800)
Specific gravity	1.03±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	60±10	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	85.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	36	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	7.5±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	230±25	poise	L-Type Viscometer (LaRay), at 25℃
Flow	38.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.

Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Warm Red
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 56.96 a* : +71.34 b* : +59.66 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	1.26±0.06		Densitometer (Screen DM-800)
Specific gravity	1.11±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	95±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	90.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	12	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	8.0±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.

Viscosity	220±25	poise	L-Type Viscometer (LaRay), at 25℃
Flow	39.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Rubine Red
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 45.12 a* : +78.69 b* : +13.46 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	1.87±0.08		Densitometer (Screen DM-800)
Specific gravity	1.05±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	55±10	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	85.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree

Light Fastness	36	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	7.5±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	320±40	poise	L-Type Viscometer (LaRay), at 25℃
Flow	39.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Rhodamine Red
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 46.83 a* : +81.89 b* : -6.37 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	1.84±0.08		Densitometer (Screen DM-800)
Specific gravity	1.17±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	6.0±2.0	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification			Duke Tester,

	65±10	%	Maximum Emulsified Water, at 8-min.
Gloss	83.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	< 12	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	10.0±0.5		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	300±30	poise	L-Type Viscometer (LaRay), at 25℃
Flow	39.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Purple
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 43.82 a* : +72.61 b* : -45.46 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	1.38±0.06		Densitometer (Screen DM-800)

Specific gravity	1.10±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	6.0±2.0	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	65±10	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	75.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	< 12	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	10.0±0.5		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	280±30	poise	L-Type Viscometer (LaRay), at 25℃
Flow	39.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Violet
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 14.67 a* : +64.45 b* : -77.03		Spectrophotometer (X-Rite 938), D50, 2deg.

	⊿E ≦ 2.0		
Density	2.32±0.10		Densitometer (Screen DM-800)
Specific gravity	1.05±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	85±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	70.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	< 12	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	7.5±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	280±30	poise	L-Type Viscometer (LaRay), at 25℃
Flow	38.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Reflex Blue
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 22.15 a* : +28.05 b* : -72.64 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	2.36±0.10		Densitometer (Screen DM-800)
Specific gravity	1.10±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	75±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	76.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	12	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	8.5±0.5		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	280±30	poise	L-Type Viscometer (LaRay), at 25℃
Flow	37.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

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Product Specifications

Product Name	Pantone Process Blue
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin

Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 47.36 a* : -34.37 b* : -55.90 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	2.37±0.10		Densitometer (Screen DM-800)
Specific gravity	1.08±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	100±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	74.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	> 60	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	7.5±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	220±25	poise	L-Type Viscometer (LaRay), at 25℃
Flow	39.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Green
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 63.50 a* : -71.84 b* : +1.90 ⊿ E ≦ 2.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	1.80±0.08		Densitometer (Screen DM-800)
Specific gravity	1.14±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	100±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	82.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	> 60	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	7.5±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	280±30	poise	L-Type Viscometer (LaRay), at 25℃
Flow	38.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Mixing Black
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961

Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 4. 47 a* : +0.87 b* : +0.69 ⊿ E ≦ 1.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	2.53±0.10		Densitometer (Screen DM-800)
Specific gravity	1.10±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	100±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	89.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	> 60	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	8.0±0.4		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	220±25	poise	L-Type Viscometer (LaRay), at 25℃
Flow	37.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Transparent White
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	N/A		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	N/A		Densitometer (Screen DM-800)
Specific gravity	1.22±0.04	g/cc	Weight/Volume, at 25℃
Drying Time	5.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	90±15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	72.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	N/A	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	8.5±0.5		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	220±25	poise	L-Type Viscometer (LaRay), at 25℃
Flow	40.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

4/29/2005

Product Specifications

Product Name	Pantone Opaque White
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 03-5692-7314 Fax: 03-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○ ,1○ ,2○ ,3□ ,4□ ,5□ ,6, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	N/A		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	N/A		Densitometer (Screen DM-800)
Specific gravity	1.60±0.06	g/cc	Weight/Volume, at 25℃
Drying Time	4.5±1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25℃ and 60% Humidity
Emulsification	55±10	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	63.0±5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	N/A	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	9.0±0.5		Inkometer (Swing Albert), 400rpm, 30℃, at 1-min.
Viscosity	350±40	poise	L-Type Viscometer (LaRay), at 25℃
Flow	36.0±1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25℃, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.