



# DIRECT/INDIRECT THERMAL

## PRODUCT DESCRIPTION

High heat and water resistance make this line of water-based printing inks an excellent choice for direct or indirect thermal printing applications. Depending on the substrate and heat application, these inks have provided heat resistance up to 450°F and eliminate pick-off or ink transfer to the print heads. Excellent ribbon transfer allows this system extreme versatility for both direct and indirect imaging applications. This system offers excellent printability on both papers and films and can be used in typical label applications as well.

## PRODUCT SPECS

PRODUCT CODE	BRIEF DESCRIPTION
Direct/Indirect Thermal	Heat-Resistant Print Ink System

TECHNICAL INFORMATION	DESCRIPTIONS	NOTES
Gloss	8-9	Substrate Dependent
Viscosity	10-17	3-Zahn
Waterborne or Radiation Curing	Water	
Pigmented	Yes	
Appearance	Ink Color Dependent	

**WARNING:** Possible skin/eye irritant. Sensitization or other allergic reactions may occur. Reactions may not appear immediately after exposure. Avoid all eye and skin contact. Use in well-ventilated area; avoid inhalation of vapors. If contact occurs, immediately wash all affected areas with soap and water.

## APPLICATION RECOMMENDATIONS

APPLICATION METHOD	Flexographic printing application
SUBSTRATE	DT Thermal Trans Paper: Treated Films
BCM VOLUME	1-5
CURE SPEED/PRINT SPEED	200 fpm-500 fpm (Press Dependent)
PROPER STORAGE AND HANDLING	Store in original container within a low-humidity environment. Use proper handling equipment when in contact with this product.

Recommended uses for DI include direct thermal papers, ribbon transfer, laser imprintable, foil lid and film applications. Also in areas where high grease, oil or water resistance is required.

Thermal papers vary greatly and pretesting for any specific application is strongly recommended.

THERMAL














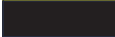


## CHEMICAL RESISTANCE PROPERTIES

\*Twenty cotton swab rubs equals (1) point of resistance on either BOPP or Coated Paper

INK SYSTEM	SUBSTRATE		RESISTANCE PROPERTIES					GLOSS
	BOPP	Coated Paper	Water	IPA	Alkali 2% Solution	Amm 1% Solution	Bleach 1% Solution	
Direct	X		5	1	5	4	5	95-100
Indirect		X	5	3	5	3	3	65-70

\*The test results you are seeing are representative of our standard DI Inks and may not directly correspond to every manufactured batch.

## STANDARD INK BLENDERS

COLOR	U.V. SKU FAST CURE	DESCRIPTION	LIGHTFASTNESS (BLUE WOOL VALUE)
	DIPB13-01	Pro. Blue	8
	DIPG13-01	Green	8
	DIWR13-03	Red	5
	DIRR13-07	Rubine	5
	DIRR13-02	Rubine LF	6
	DIPV13-01	Violet	3
	DIPV13-02	Violet LF	8
	DIPP13-05	Purple	2
	DIRH13-05	Rhodamine	2
	DIRH13-02	Rhodamine LF	8
	DIYE13-04	Yellow	4
	DIYE13-03	Yellow LF	7
	DIPK13-05	Mixing Black	8
	DIPK10-2	Dense Black	8

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