

**Advantages**

- Monochlorotriazine dyes having low substantivity
- High performance dyes suitable for different processes
- Wide range of shades for broad shade gamut
- Good build up & reproducibility
- Good wash fastness levels
- Resistant to oxidative bleach damage

**Product placement**

**Light - Medium shades -** Golden Yellow PR  
Red 6BX  
Blue P5R  
Black PN

**Deep Shades -** Golden Yellow PR  
Red P8B  
Navy P2R

**Support dyes -** Yellow P6GS  
Yellow P4G  
Orange P2R  
Red PB  
Magenta PB  
Purple P3R  
Blue P3R  
Brown P6R  
Black PGR

**Abbreviations**

- Bl - Bluer
- Br - Brighter
- DI - Duller
- Dk - Darker
- G - Greener
- R - Redder
- Y - Yellower
- S - Suitable
- NS - Not suitable
- CO - Cotton
- CV - Viscose



**Product Placement Chart**

Products	Placement	Warm exhaust	Hot exhaust	Cold pad batch	Pad dry chemical pad steam	Printing
Kirazol KR	Difficult shades	S		S	S	
Kirazol KX Conc.	High performance dyeing (deep shades)	S		S	S	
Kirazol KX	High performance dyeing (Md - Dp shades)	S		S	S	
Kiractive P	High performance printing					S
Kiractive KF	Better reproducibility	S		S		
Kirazol KV	High strength shades	S		S	S	
Kiractive HE	Economical high temperature dyeing		S			
Kiractive ME	Economical warm exhaust dyeing	S		S		
Kirazol VS	Commodity multi-use vinyl sulphone	S		S	S	S

**Kiri Industries Limited**  
*Fascia Full of Colours...*

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**Kiractive P Dyes**



Kiractive P Dyes		Product Name	Processes			Solubility g/l	Light Fastness				Washing		Water		Perspiration E04		Rubbing		M&S C10A			
			Printing	Pad Dry Steam	Pad Dry Thermofix		Water - 30°C	AATCC 16E 1/1	AATCC 16E 1/3	ISO B02 1/1	ISO B02 1/3	CO3		E01		Acidic	Alkaline	X12	Change in colour (Damage to Oxidative Bleach)	Chlorinated Water 20mg/lh		
												Change in colour	Stain (cotton)	Change in colour	Stain (cotton)						Change in colour	Stain (cotton)
1%	4%	Yellow P6GS	S	S	S	60	5	4-5	6	5	4-5	4-5	5	4-5	5	4-5	5	4	4-5	4		
		Yellow P4G	S	S	NS	200	5	4-5	6	5-6	5	4-5	5	5	5	5	5	5	4	4-5	2-3	
		Golden Yellow PR	S	S	S	120	4-5	4	6	5-6	5	4-5	5	4-5	5	4-5	5	4-5	4	4-5	4	
		Orange P2R	S	S	S	200	3-4	3	4	3-4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4	4	
		Red PB	S	S	S	120	4	3-4	5-6	5	4-5	4-5	5	4-5	4-5	5	4-5	4-5	3-4	4-5	3-4	
		Red P2BL	S	S	S	200	4	3-4	5-6	5	4-5	4-5	5	4-5	4-5	5	4-5	4-5	3-4	4-5	3-4	
		Red 6BX	S	S	NS	40	4-5	4	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4	4	
		Red P8B	S	NS	NS	200	4	3-4	5	4-5	5	4-5	5	4-5	5	4-5	4-5	4	4-5	4	4	
		Magenta PB	S	S	S	50	4	3-4	4	3-4	4-5	4-5	4-5	4-5	4-5	4-5	5	4	4	4	3	
		Purple P3R	S	S	S	50	4-5	4	5	4-5	5	4-5	5	4-5	4-5	4-5	4-5	4	4-5	4	3	
		Blue P3R	S	S	S	200	5	4-5	6-7	6	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	4	4	2-3	
		Blue P5R	S	S	S	40	4-5	4	6	5-6	5	4-5	5	5	4-5	5	4-5	5	4	4-5	2	
		Brown P6R	S	S	S	150	5	4-3	6-7	6	5	4-3	5	4-5	5	4-5	5	4-5	5	4	4-5	4

Kiractive P Dyes		Product Name	Processes			Solubility g/l	Light Fastness				Washing		Water		Perspiration E04		Rubbing		M&S C10A			
			Printing	Pad Dry Steam	Pad Dry Thermofix		Water - 30°C	AATCC 16E 1/1	AATCC 16E 1/3	ISO B02 1/1	ISO B02 1/3	CO3		E01		Acidic	Alkaline	X12	Change in colour (Damage to Oxidative Bleach)	Chlorinated Water 20mg/lh		
												Change in colour	Stain (cotton)	Change in colour	Stain (cotton)						Change in colour	Stain (cotton)
1%	4%	Navy P2R	S	S	S	200	4	3-4	4	3-4	4-5	4-5	4-5	5	4-5	5	4-5	5	3-4	4-5	3	
		Black PN	S	S	NS	50	4	3-4	5	4-5	5	4-5	5	4-5	5	4-5	5	4-5	5	4	5	
3%	6%	Fastness at 5% depth																				
		Black PGR	S	S	S	200	4	---	5	---	5	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	3

### Printing Processes

#### Print - Silicate

Dye	X parts
Urea	50 - 100
Water	Y parts
Sodium Alginate Paste (6%)	500
Stock	1000

Print - Dry - Pad Silicate (95° - 100° TW)  
Batch 16 hrs

#### Print - Dry - Steam / Print - Dry - Bake

Substrate	Cotton	Viscose
Dye	X parts	X parts
Urea	50 - 100	100 - 200
Water	Y parts	Y parts
Sodium Alginate Paste (6%)	500	500
Resist Salt	10	10
Sodium bicarbonate or	10 - 30	10 - 30
Sodium carbonate	8 - 20	8 - 20
Stock	1000	1000

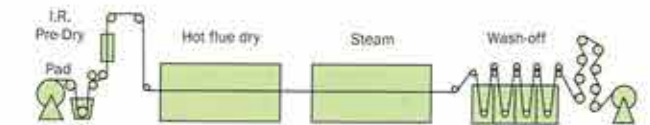
#### Bicarbonate & Urea requirement

Dye (g/kg)	1-10	11-30	31-40	> 40
Sodium Bicarbonate (g/kg)	10	15	25	30
Urea (g/kg)	CO	50	70	100
	CV	100	140	200

Print - Dry - Steam for 7 to 10 min at 102° - 100°C  
or

Print - Dry - Bake 1 - 5 min at 200° - 150°C (Process not suitable for Viscose)

### Pad - Dry - Steam (cotton & viscose)

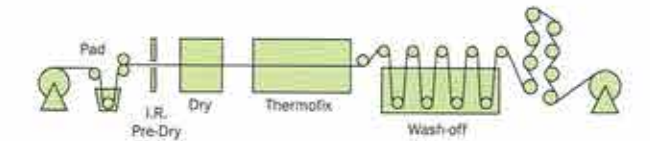


Mixing pump required: Pad: dye, wetting agent, anti-migrant, mild oxidant, alkali. Add Urea to improve solubility.

Dye (g/l)	Soda Ash (g/l)
< 20	10
> 20	20

IR Pre-dry, Dry: 100-120°C, Steam: 2 mins at 102°C

### Pad - Dry - Thermofix (cotton)



Mixing pump required: Pad: dye, wetting agent, anti-migrant, mild oxidant, alkali.

Dye (g/l)	Soda ash (g/l)	Urea (g/l)
< 20	10	100
20 - 50	15	150
> 50	20	200

IR Pre-dry, Dry: 110 - 130°C  
Thermofix: 3 mins at 160°C