

## Coralene Yellow 4GNL-SE

A medium energy lemon yellow disperse dye suitable for general exhaust dyeing applications on polyester

### Suitability / Application:

#### Substrate:

Fiber / Yarn	-	◐
Sewing threads	-	●
Piece dyeing	-	●
Micro fibers / fabric	-	◻
P/C Blends - Exhaust, 2 bath	-	●
P/C Blends - Continuous	-	○
P/Elastane Blends	-	◻
P/W Blends	-	○

#### Process:

##### Exhaust dyeing:

Low temperature with carrier	-	●
Carrier dyeing at 110°C	-	●
HT, 130°C	-	●
HT, Alkaline dyeing (buffered at pH 9.5)	-	○

##### Continuous dyeing

	-	○
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##### Printing

	-	○
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##### Development method in printing:

Pressure Steaming	-	○
HT Loop Steaming	-	○

##### Discharge printing

Dischargeable ground	-	○
Discharge resistant illuminant	-	○

**Exhaust Dyeing**  
0.24% (1/3 SD)



0.72 % (1/1 SD)



1.44% (2/1 SD)



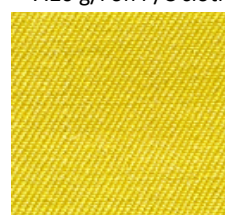
[Dyeing at 130°C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398]

### General properties:

C.T.Z.:	100° - 120°C
Leveling at 130°C:	Good
Migration:	Good
pH range for application :	3.0 - 6.0
Dischargeability:(Zinc sulphoxylate formaldehyde)	Moderate
Sensitivity to metal (Fe):	Low
Stripping method:	Reductive
Saturation value in HTHP exhaust dyeing: (On 80D/36F polyester knit fabric)	2.00%

#### Continuous dyeing

7.20 g/l on P/C cloth



### Shade change under artificial light:

D 65	Inc A	F 11 (TL 84)	F02 (CWF)	UL 35
Control	BB	GG	GG	GG

### Cross staining on other components of blends in one bath dyeing:

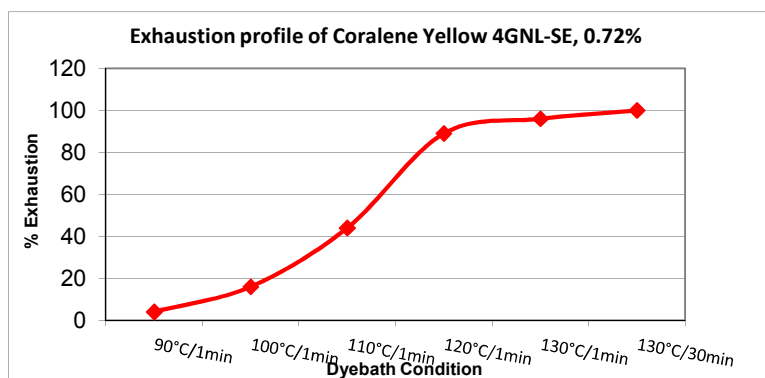
Substrate	CA	PAN	PA	Cellulosic	Wool
Staining in dyebath	High	Moderate	High	Low	Moderate
Staining after R.C.	High	Moderate	High	Low	Low

( Abbreviation: ● - Suitable, ○ - Not Suitable, ◐ - Limited suitability, ◻ - Not Recommended, R - Redder,

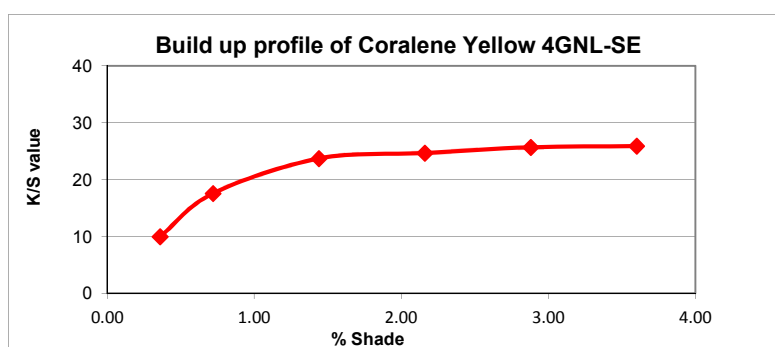
G - Greener, B - Bluer)

## Coralene Yellow 4GNL-SE

### Product Performance:



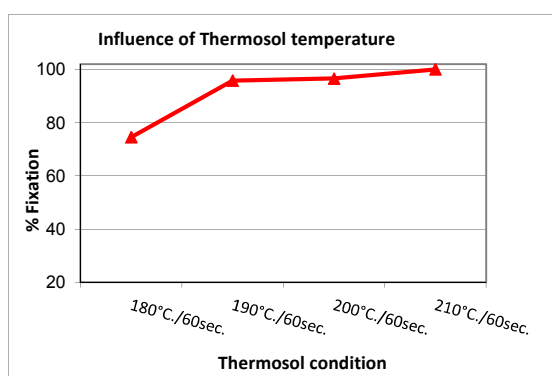
(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)



(Exhaust dyeing different depth at 130°C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

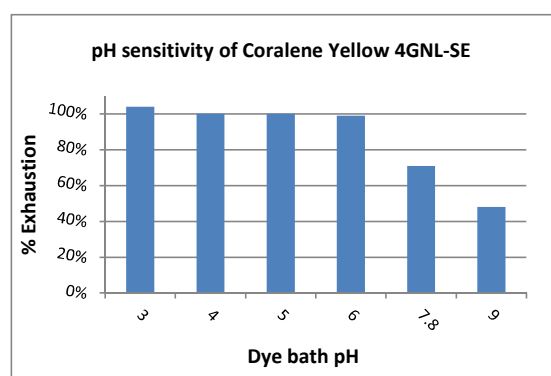
### Thermosol Application:

7.2 gpl Coralene Yellow 4GNL-SE on P/C fabric



### pH Sensitivity:

0.72 % Coralene Yellow 4GNL-SE in exhaust dyeing



**Fastness Properties:** (Tested on 80D/36F 100% PET Knit dyed by exhaust method)

- Light fastness (ISO 105 B02)
- Light fastness (AATCC 16, Option 3, 20 AFU)
- Sublimation fastness 1/1 SD (ISO 105 P01, 30 Sec)

Shade change (Rating)		
1/6 SD	1/3 SD	1/1 SD
6	6	6
4.0	4.0	4.0

Temperature	180°C	190°C	200°C
C.O.S.	4	4	4
Staining on PET	4	3-4	3

## Coralene Yellow 4GNL-SE

**Fastness Properties:** ( Tested at 0.72 % depth, on 80D/36F 100% PET Knit dyed by exhaust method and post set at 180°C for 30 Sec)

		Staining on						
		C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Perspiration Light fastness (ISO 105 B07)	Acidic	4-5						
● Perspiration Light fastness (ISO 105 B07)	Alkaline	4-5						
● Wash fastness (ISO 105 C06, A2S, )		4	4-5	4-5	4-5	4-5	4-5	4-5
● Wash fastness (ISO 105 C06, C2S, )		4	4	4-5	4	4-5	4-5	4-5
● Wash fastness (ISO 105 C10 C, 60°C)		4	4-5	4-5	4	4-5	4-5	4-5
● Wash fastness (AATCC 61 Option 2A, 49°C )		4.0	4.0	4.5	4.0	4.5	4.5	4.5
● Dry cleaning fastness ( ISO 105 D01)		4	4-5	4-5	4-5	4-5	4-5	4-5
● Water fastness ( ISO 105 E01)		4-5	4	4-5	4	4-5	4-5	4-5
● Sea water fastness (ISO 105 E02)		4-5	4	4-5	4	4-5	4-5	4-5
● Chlorinated water (ISO 105 E03)	20 ppm	4-5						
● Chlorinated water (ISO 105 E03)	50 ppm	4-5						
● Perspiration fastness (ISO 105 E04)	Acidic	4-5	4	4-5	4	4-5	4-5	4-5
● Perspiration fastness (ISO 105 E04)	Alkaline	4-5	4	4-5	4	4-5	4-5	4-5
● Hypochlorite bleach fastness (ISO 105 N01)		4						
● Peroxide bleach fastness (ISO 105 N02)		4		4-5		4-5		
● Crocking fastness (ISO 105 X12, Dry/Wet)				4-5/4-5				
● PVC migration (ISO 105 X10)		4	(Staining on PVC film)					
● Saliva fastness (DIN 53160)		5.0	(Staining on filter paper)					

**Note:**

**Disclaimer:** This information is provided in good faith, to the best of our knowledge and without liabilities.



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