Sodecron Blue 2RL

A non dischargeable low energy blue disperse dye with good barreness coverage property suitable for varied exhaust dyeing applications on polyester

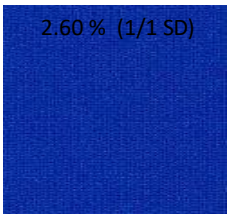
Suitability / Application:

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^{0}C	-	●
HT, 130^{0}C	-	●
HT, Alkaline dyeing (buffered at pH 9.5)		●
Continuous dyeing	-	○
Printing	-	○
Development method in printing:		
Pressure Steaming	-	○
HT Loop Steaming	-	○
Discharge printing	-	
Dischargeable ground	-	○
Discharge resistant illuminant	-	◒

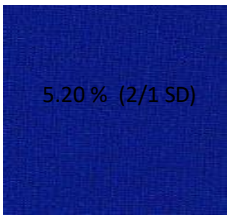
Exhaust Dyeing

0.866%(1/3 SD)

2.60 % (1/1 SD)



5.20 % (2/1 SD)



(Dyeing at 130^{0}C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

General properties:

C.T.Z.:	95 - 120^{0}C
Leveling at 130^{0}C:	Good
Migration:	Good
Recommended pH range for dyeing :	3.0 - 8.0
Dischargeability:(Zinc sulphoxylate formaldehyde)	Non dischargeable
Sensitivity to metal (Fe):	Low
Stripping method:	-
Saturation value in HTHP exhaust dyeing:	5.50%
(On 80D/36F polyester knit fabric)	

Shade change under artificial light:

D 65	Inc A	F 11 (TL 84)	F02 (CWF)	UL 35
Control	Tr R	RR	RR	RR

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	Moderate

(Abbreviation: ● - Suitable, ○ - Not Suitable, ◒ - Limited suitability, ◨ - Not Recommended, R - Redder, G - Greener, B - Bluer)

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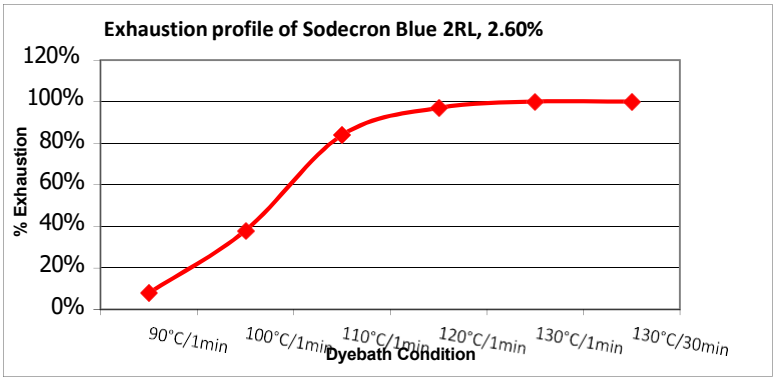
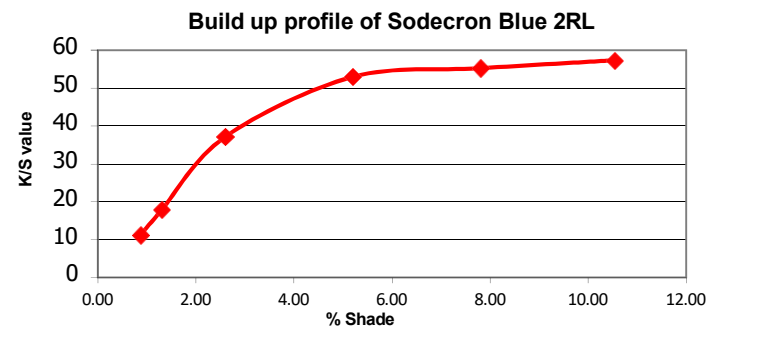
Product Performance:

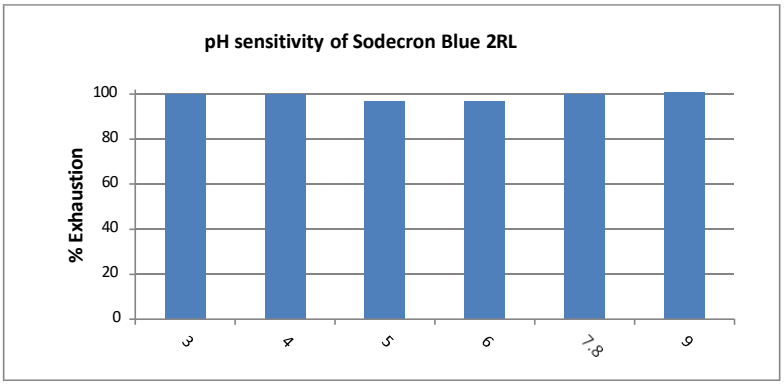


(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)



(Exhaust dyeing different depth at 130^{0}C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

pH Sensitivity: 2.60 % Sodecron Blue 2RL in exhaust dyeing



(Exhaust dyeing at 130^{0}C temperature for 45 min on polyester fabric at different dyebath pH)

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

	Shade change (Rating)		
	1/6 SD	**1/3 SD**	**1/1 SD**
● Light fastness (ISO 105 B02)	5-6	6	6
● Light fastness (AATCC 16, Option 3, 20 AFU)	4.0	4.0	4.0

● Sublimation fastness 1/1 SD (ISO 105 P01, 30 Sec)

Temperature	**170^{0}C**	**180^{0}C**	**190^{0}C**
C.O.S.	4-5	4-5	4-5
Staining on PET	3	3	2-3

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Fastness Properties: (Tested at 2.60 % depth, on 80D/36F 100% PET Knit dyed by exhaust method and post set at 180^{0}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	3	4	2-3	3-4	4	3-4
● Wash fastness (ISO 105 C06, C2S,)		4	3	4	2-3	3-4	4	3-4
● Wash fastness (ISO 105 C10 C, 60^{0}C)		4	3	4	2-3	3-4	4	3-4
● Wash fastness (AATCC 61 Option 2A, 49^{0}C)		4.0	2.5	3.5	2.0	3.0	4.0	3.0
● 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	4	4-5	4-5	4
● Sea water fastness (ISO 105 E02)		4-5	4	4	3-4	4	4-5	4
● Chlorinated water (ISO 105 E03)	20 ppm	4						
● Chlorinated water (ISO 105 E03)	50 ppm	4						
● Perspiration fastness (ISO 105 E04)	Acidic	4-5	4	4	3-4	4	4-5	4
● Perspiration fastness (ISO 105 E04)	Alkaline	4-5	4	4	3-4	4	4-5	4
● Hypochlorite bleach fastness (ISO 105 N01)		4						
● Peroxide bleach fastness (ISO 105 N02)		4		4		3		
● Crocking fastness (ISO 105 X12, Dry/Wet)				4-5/4-5				
● PVC migration (ISO 105 X10)		3	(Staining on PVC foil)					
● Saliva fastness (DIN 53160)		5.0	(Staining on filter paper)					

Note: Sodecron Blue 2RL may give anomalous light fastness results in admixture with certain azo group based Yellow & Reds

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