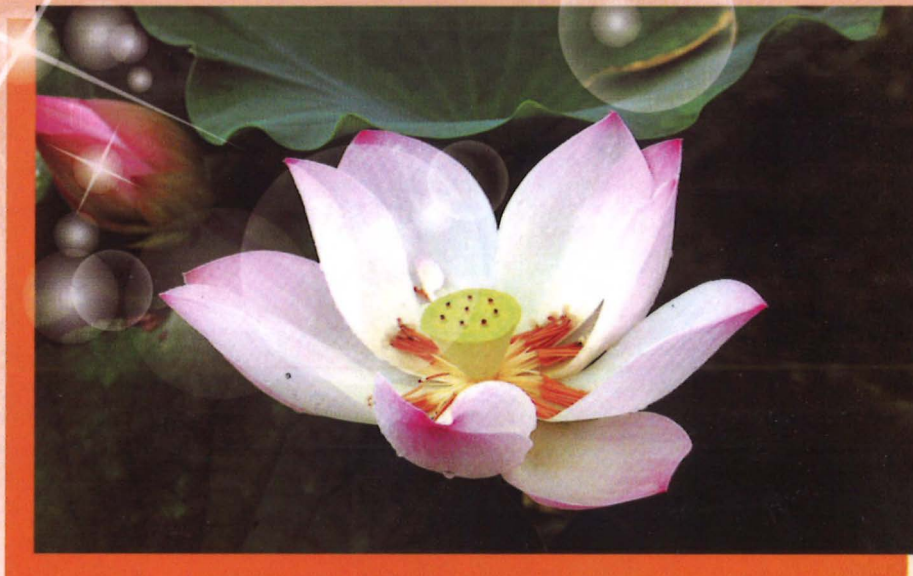


- Acid dyes

- Kayanol Colours: Half - Milling type acid dyes
- Kayanol Milling Colours: Milling type acid dyes
- Kayakalan & Kayalax Colours: Metal complex acid dyes



Quality policy

Continuous improvement, providing products that meet customer requirement



NIPPON KAYAKU (THAILAND) CO., LTD.

Kayacyl

Kayacyl	%o.w.f.	Nylon	Wool	溶解度 g/L Solubility	耐光 Light : ISO		皂洗 Washing : ISO (Test 2 : 50°C) Nylon			汗 Perspiration : ISO Nylon			汗 Perspiration : ISO Wool			耐氯处理水 Chlorinated Water 10ppm Nylon
					Nylon	Wool	Change Shade	Nylon	Cotton	Change Shade	Nylon	Cotton	Change Shade	Wool	Cotton	
No Production				100	3	2	4-5	4-5	4-5	4-5	2-3	1-2	4-5	3-4	2	2-3









Kayanol

Kayanol	%o.w.f.	Nylon	Wool	溶解度 g/L Solubility	耐光 Light : ISO		皂洗 Washing : ISO (Test 2 : 50°C) Nylon			汗 Perspiration : ISO Nylon			汗 Perspiration : ISO Wool			耐氯处理水 Chlorinated Water 10ppm Nylon
					Nylon	Wool	Change Shade	Nylon	Cotton	Change Shade	Nylon	Cotton	Change Shade	Wool	Cotton	
No Production				100	7	6	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
No Production				20	6	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4-5	4-5	3-4	4-5
No Production				100	7	6	4-5	4	4-5	4-5	4	4-5	4-5	4-5	4	4-5
Brilliant Yellow NWN	1.2			100	6-7	7	4-5	4-5	4-5	4-5	3-4	3-4	4-5	4	4	2-3
Yellow NWN	1.1			100	7	6-7	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Red NWN	0.8			60	5	5-6	4-5	3-4	4-5	4-5	3-4	4-5	4-5	4	3-4	4-5
Blue NWN	1.2			100	7	6	4-5	4	4-5	4-5	3-4	4	4-5	4-5	3-4	4-5
Yellow NFG	1.4			100	7	7	4-5	3	3-4	4-5	2-3	3-4	4-5	3-4	3	4-5
Yellow N5G	1.2			100	6	7	4-5	4-5	4-5	4-5	3-4	3-4	4-5	4-5	4-5	2-3
Yellow N3R	1.1			100	7	6	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Floxine NK(N)	0.6			70	7	7	3-4	3	4-5	4-5	3	4	4-5	3	3	4-5
Blue NR	0.7			15	7	6	4-5	3	4-5	4-5	3	4	4-5	3	3	4-5
Blue N2G(C)	1.1			70	7	6-7	4-5	3	2-3	4-5	2-3	3	4-5	2-3	2	4-5
Cyanine Green G	1.0			70	7	5-6	4	4-5	4	4	2-3	3	4	2-3	3-4	4-5
Navy Blue R	0.8			100	5	5-6	4-5	4-5	4-5	4-5	4	3	4-5	4	3	4-5



Kayanol Milling

Kayanol milling	%o.w.f.	Nylon	Wool	溶解度 g/L Solubility	耐光 Light : ISO		皂洗 Washing : ISO (Test 2 : 50°C) Nylon			汗 Perspiration : ISO Nylon			汗 Perspiration : ISO Wool			耐氯处理水 Chlorinated Water 10ppm Nylon
					Nylon	Wool	Change Shade	Nylon	Cotton	Change Shade	Nylon	Cotton	Change Shade	Wool	Cotton	
Yellow 5GW	2.4			70	7	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Yellow O	1.6			100	7	6-7	4-5	4-5	4-5	4-5	3-4	3	4-5	4-5	4-5	4-5
Scarlet FGW	1.0			60	6-7	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5
Red BW	0.8			100	4	4	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5
No Production				80	3-4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Violet FBW	1.3			100	7	6	4-5	4-5	4-5	4-5	4	4	4-5	4-5	4	4-5
Blue 2RW	1.3			70	7	6	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5
Ultra Sky SE	1.4			100	7	6	4-5	4-5	4-5	4-5	3	3	4-5	4-5	4	4-5
Blue BW	1.2			100	7	5-6	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Blue GW	1.6			25	7	5-6	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Turquoise Blue 3G	2.6			100	3-4	5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	3-4	2	4-5
Green GW	1.1			25	7	6	4-5	4-5	4-5	4-5	4	4	4-5	4-5	4-5	4-5
Green 5GW	1.1			80	7	6-7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Black TLB	4.0			80	6-7	6-7	4-5	4	2	4-5	1-2	2	4-5	4-5	4-5	4-5

Kayakalan

Kayakalan	%o.w.f.	Nylon	Wool	溶解度 g/L Solubility	耐光 Light : ISO		皂洗 Washing : ISO (Test 2 : 50°C) Nylon			汗 Perspiration : ISO Nylon			汗 Perspiration : ISO Wool			耐氯处理水 Chlorinated Water 10ppm Nylon
					Nylon	Wool	Change Shade	Nylon	Cotton	Change Shade	Nylon	Cotton	Change Shade	Wool	Cotton	
Yellow GL 143	1.0			50	7	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Bordeaux BL	1.3			100	7	7	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Grey BL 167	1.2			100	7	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Black BGL	4.0			100	7	7	4-5	3	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5

Kayalax

Kayalax	%o.w.f.	Nylon	Wool	溶解度 g/L Solubility	耐光 Light : ISO		皂洗 Washing : ISO (Test 2 : 50°C) Nylon			汗 Perspiration : ISO Nylon			汗 Perspiration : ISO Wool			耐氯处理水 Chlorinated Water 10ppm Nylon
					Nylon	Wool	Change Shade	Nylon	Cotton	Change Shade	Nylon	Cotton	Change Shade	Wool	Cotton	
Navy BW	1.6			50	7	7	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5

染色条件 Dyeing condition 染色法 Dyeing Method : 浸染 Exhaustion-Dyeing
 被染物 Material : 未漂白羊毛 Scoured and unbleached wool
 浴比 Liquor ratio : 1:20 (20:1)
 芒硝 Glauber's Salt : 2%o. w. f.
 温度时间 Temperature and Time : 100°C×30min. → 水洗 Water rinsing
 染色 pH Dyeing pH :

	Kayacyl	Kayanol	Kayanol Milling	Kayakalan, Kayalax
醋酸 Acetic acid		5%o. w. f.	2%o. w. f.	1%o. w. f.
醋酸铵 Ammonium acetate	3%o. w. f.	1%o. w. f.	3%o. w. f.	5%o. w. f.
蚁酸 Formic acid	5%o. w. f.			

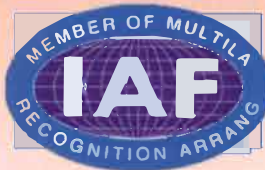
染色条件 Dyeing condition 染色法 Dyeing Method : 浸染 Exhaustion-Dyeing
 被染物 Material : 尼纶 Nylon
 浴比 Liquor ratio : 1:20 (20:1)
 均染剂 Leveller : Newbon TS-400 0.5%o. w. f.
 温度时间 Temperature and Time : 100°C×30min. → 水洗 Water rinsing
 染色 pH Dyeing pH :

	Kayacyl	Kayanol	Kayanol Milling	Kayakalan, Kayalax
醋酸 Acetic acid		5%o. w. f.	2%o. w. f.	1%o. w. f.
醋酸铵 Ammonium acetate	3%o. w. f.	1%o. w. f.	3%o. w. f.	5%o. w. f.
蚁酸 Formic acid	5%o. w. f.			

牢度条件 Fastness condition

耐晒 Light : ISO 105-B02 (Xenon-arc Black panel : 53°C)
 皂洗 Washing : ISO 105-C10 (Test2)
 汗 Perspiration : ISO 105 E-04 (Alkali)
 耐氯处理水 Chlorinated Water : JIS L0884 10ppm

The technical information and recommendations in this leaflet are based on the best of our knowledge at present. But ,we are not able to guarantee these matters, as the results of application vary widely according to the conditions adopted. Preliminary tests are, therefore, recommended in all cases



IS09001: 2000
IS014000



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