

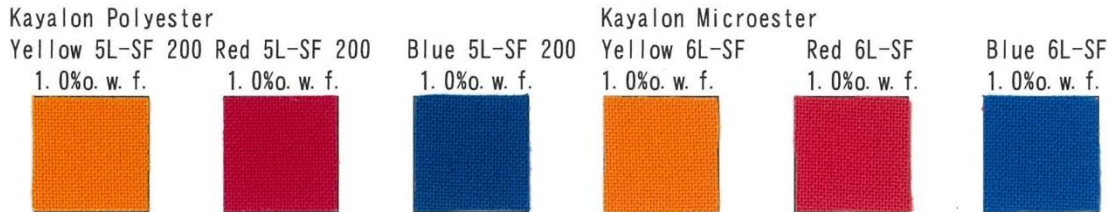
Technical Communication



Nippon Kayaku (Thailand) CO., LTD.
Technical Service Center

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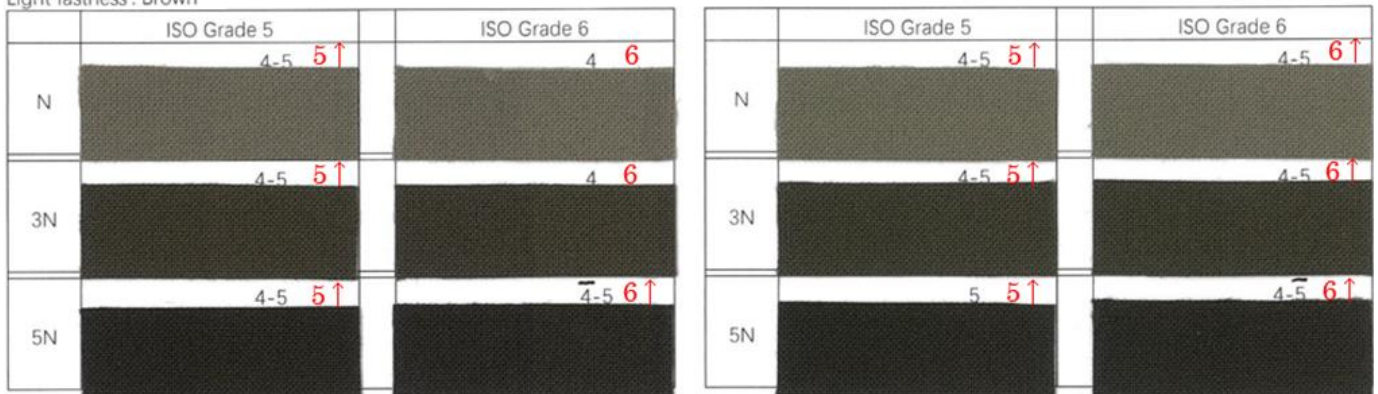
〔Introduction of KP 5L-SF 200 and KM 6L-SF〕



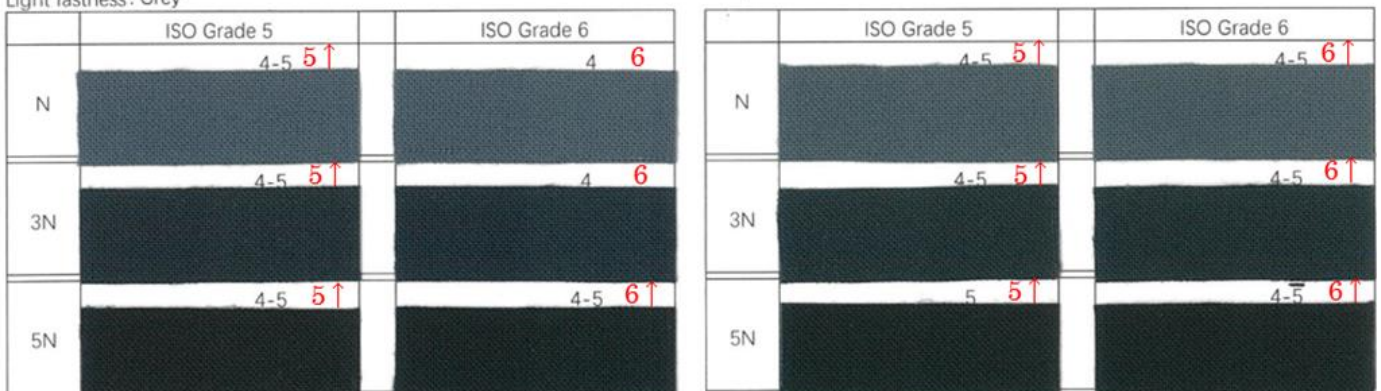
- KP 5L-SF 200 and KM 6L-SF series are disperse dyes for medium to deep shades with excellent light fastness.
- KP 5L-SF 200 can achieve a light fastness level of ISO grade 5, while KM 6L-SF can achieve a light fastness level of ISO grade 6.
- These two series are recommended in applications where high light fastness standards are required, such as micropolyester, sportswear, curtains, and upholstery.

	Brown(N)	Grey(N)		Brown(N)	Grey(N)
KP Yellow 5L-SF 200	0.170	0.107	KM Yellow 6L-SF	0.234	0.143
KP Red 5L-SF 200	0.055	0.052	KM Red 6L-SF	0.102	0.104
KP Blue 5L-SF 200	0.100	0.170	KM Blue 6L-SF	0.143	0.204

Light fastness : Brown



Light fastness : Grey



- The data above shows the light fastness levels of Brown and Grey mixed colors produced with KP 5L-SF 200 and KM 6L-SF series.

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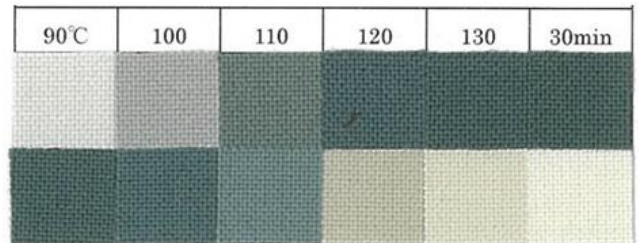
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- Step dyeing of KP 5L-SF 200 and KM 6L-SF series.
- The trichromatic colors of KP 5L-SF 200 and KM 6L-SF series are designed to have similar dyeing rates, therefore displaying excellent reproducibility.

KP Yellow 5L-SF 200 0.107
 KP Red 5L-SF 200 0.052
 KP Blue 5L-SF 200 0.170

KM Yellow 6L-SF 0.240
 KM Red 6L-SF 0.110
 KM Blue 6L-SF 0.325



- The data below highlights the washing and sublimation fastness levels of 5L-SF 200 and 6L-SF series.

(1) 5L-SF 200 series	Recipe	Color	Depth	Washing Fastness	Sublimation Fastness (180°C×30s)	
				AATCC II-A	PET	Nylon
KP Yellow 5L-SF 200	N=0.170	Brown	N	4-5	4-5	4-5
KP Red 5L-SF 200	N=0.055		3N	4-5	4-5	4-5
KP Blue 5L-SF 200	N=0.100		5N	4-5	4-5	4-5
KP Yellow 5L-SF 200	N=0.107	Grey	N	4-5	4-5	4-5
KP Red 5L-SF 200	N=0.052		3N	4-5	4-5	4-5
KP Blue 5L-SF 200	N=0.170		5N	4	4-5	4-5

(2) 6L-SF series	Recipe	Color	Depth	Washing Fastness	Sublimation Fastness (180°C×30s)	
				AATCC II-A	PET	Nylon
KM Yellow 6L-SF	N=0.234	Brown	0.5N	4-5	4-5	4-5
KM Red 6L-SF	N=0.102		N	4-5	4-5	4-5
KM Blue 6L-SF	N=0.143		2N	4-5	4-5	4-5
KM Yellow 6L-SF	N=0.143	Grey	0.5N	4-5	4-5	4-5
KM Red 6L-SF	N=0.104		N	4-5	4-5	4-5
KM Blue 6L-SF	N=0.240		2N	4-5	4-5	4-5

- Generally, disperse dyes with strong light fastness have inferior washing and sublimation fastness. KP 5L-SF 200 and KM 6L-SF series were developed with high light fastness while having excellent washing and sublimation fastness.
- KP 5L-SF 200 is relatively cheaper and the light fastness is lower than KM 6L-SF, so KP 5L-SF 200 is generally recommended when light fastness of grade 5 is required, while KM 6L-SF has stronger light fastness, and is recommended for light fastness requirements of grade 6 or higher.

The data obtained are based on laboratory trials. Therefore, preliminary test under customer conditions is highly recommended.

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