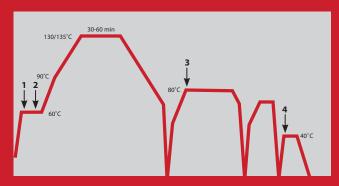
Palanil® Dyes

The economical package of standard disperse dyes

Recommended dyeing method on polyester and polyester/cellulosic blends



- 1. 1 2% Sera® Gal P-SDL 2 g/l Sera Lube M-CF pH 4.5 Sera Con M-TC
- 2. x% Palanil dyes

- **3.** Alkaline reductive clearing 3 5 ml/l caustic soda 50 °Be
 - 1 2 g/l Sera Con M-FAS or

Acid reductive clearing (without draining the dyebath) 2 g/l Sera Con P-ACT pH 3.5 - 4.5

4. pH 5-6 with acetic acid

Remarks:

Wash (C4A) Staining of PA in C4A wash test after heat setting 30 s at 180 $^{\circ}$ C +++ suitable

- ++ suitable up to medium depths
- + limited suitability

All other suitabilities

++ suitable

- + suitable with restrictions, e.g. depth of shade, technical requirements
- not suitable

Level uptake

- 1 = poor
- 2 = medium to good
- 3 = very good

Home furnishings

Fastness to light >6

Alkaline dyeing

- 1 = soft alkaline for jet with 1% Diaserver® AD-95
- 2 = hard alkaline for jet, yarn, beam with 2 4% Diaserver AD-95

Committed to Sustainability.

At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.



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Palanil [®]	Orange S-2R	Scarlet GS	Rubine S-2G	Rubine SE-FG	Blue SE-2R	Navy EX-SF 300%		Navy S-2G	Black P	Black SE-G	Black SE-RN 300%	Black CC-3R
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Dyeing properties and applications

1/1 standard depth as illustrated	1.10	0.83	0.75	0.60	0.70	N 1.10	N 1.80	B 3.50	B 3.00	B 2.60	B 2.20
Fastness to light 1/1 SD Xenon	7	5-6	>7	6	5-6	5-6	6	5-6	6	6	6
Fastness to light 1/3 SD Xenon	6-7	5	7	6	5-6	5	5-6	4-5	4-5	4-5	4-5
Sublimation 180 °C 30 sec.	4-5	4-5	4-5	3-4	4	3-4	4-5	4	3-4	3-4	3
Level uptake	3	2	3	3	2	3	3	2	3	3	3
Barré coverage	good	moderate	good	good	moderate	good	limited	-	-	-	-
pH stability	3.0-8.0	3.0-10.0	3.0-7.0	4.0-6.0	3.0-8.0	3.0-9.0	4.0-6.0	3.0-6.0	3.0-9.0	3.0-9.0	3.0-7.0
Thermofixation (optimum temperature °C)	210 °C	210 °C	210 °C	210 °C	210 ℃	210 °C	220 °C	210 °C	210 °C	210 °C	210 ℃
PES yarn, tops	++	++	++	+	+	+	++	++	+	+	+
PES piece	++	++	++	++	++	++	++	++	++	++	++
PES/Cell. yarn	++	++	++	+	+	+	++	++	+	+	+
PES/Cell. piece	++	++	++	++	++	++	++	++	++	++	++
PES/WO 105 °C	+	+	+	++	+	+	-	-	+	+	+
PES/WO 120 °C	++	+	+	++	++	++	-	-	++	++	++
Wash fastness C4A (50 °C)	++	+	+	+	++	+	+	+	+	+	+
Alkaline dyeing	2	2	-	-	1	2	-	-	2	2	-
Home furnishings	++	-	++	+	++	-	-	-	-	-	-
Acetate (CA)	++	-	+	++	-	-	-	-	-	-	-
Triacetate (CTA)	+	+	++	++	-	-	++	+	-	-	-