

Segaset

Dyes for Polyamide / Wool



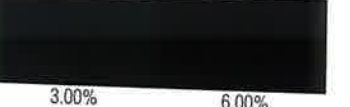
- Exhibit wet fatness properties
- On tone exhaustion
- Excellent Compatibility
- Eco-friendly

SÖZAL

Polyamide		Wool		Segaset	Fastness Properties 1/1 S/D
1/1	2/1	1/1	2/1		
1.30%2.60%		1.65%3.30%		Yellow 4GN	
1.50%3.00%		1.43%2.86%		Yellow 2R	
1.80%3.60%		2.00%4.00%		Orange RN	
1.10%2.20%		1.80%3.60%		Red G	
0.95%1.90%		1.05%2.10%		Bordeaux B	
1.70%3.40%		1.80%3.60%		Violet B	
2.00%4.00%		2.27%4.54%		Blue 2R	
2.20%4.40%		2.40%4.80%		Blue 5G	
1.90%3.80%		2.00%4.00%		Green B	Dry Press → CS
2.20%4.40%		2.40%4.80%		Navy R	Damp Press → CS
1.40%2.80%		1.43%2.86%		Brown G	Wet Press → CS
1.20%2.40%		1.55%3.10%		Brown B	Hot Pressign ISO 104x11 1994 Immediate
1.00%2.00%		1.55%3.10%		Grey G	Hot Pressign ISO 104x11 1994 After Conditioning
3.00%6.00%		3.00%6.00%		Black B	Fastness to Water ISO 105 E01

Fastness Properties On Polyamide													
Y.4GN	Y.2R	Or.RN	R.G	Bord.B	Vi.B	B.2R	Bl.5G	Green.B	Na.R	Br.G	Br.B	Gr.G	Bk.B
1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
80	80	65	80	65	100	100	80	65	90	70	90	90	65
5	4-5	4-5	5	4-5	4	4	4-5	4-5	3-4	4-5	4-5	3-4	4
6+	6	6	6+	6	6	6	6+	6+	5-6	6	6	5-6	6
4-5 4-5 4-5 5	4-5 4-5 4-5 3-4	4 4-5 4-5 4	4-5 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4 4-5 4-5 4	4-5 3-4 4-5 4	4 4 4 4-5	4 3-4 4-5 4-5	4-5 4 4 4	4-5 4-5 4-5 4-5	4 4 4-5 4-5	4-5 4 4-5 4-5	5 4 3-4 4-5
4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 3-4 4-5 4-5	4 3-4 4-5 4-5	4 3-4 4 4-5	4 4-5 3-4 4	4 2-3 4-5 4-5	4 3-4 4-5 4-5	4 4-5 4-5 4-5	4 3-4 3 4-5	4 3 4-5 4-5	4 4-5 4 4-5	4 4-5 3 4-5	4 4-5 2 4-5
4-5 4 4 4	4-5 4-5 4-5 4-5	4-5 4-5 4-5 4	5 4-5 4-5 3-4	5 5 5 3-4	4-5 4-5 4-5 3-4	5 4 4 3-4	5 4-5 4-5 4	4 4 4-5 3-4	4-5 4-5 4-5 4	5 4-5 4-5 4-5	4-5 4-5 5 4-5	4 4-5 5 4-5	4 4-5 5 4-5
4-5 5 4-5 4-5	4-5 5 5 4-5	4-5 5 5 4-5	4-5 5 5 4-5	4-5 5 5 4-5	4-5 4-5 4-5 4-5	5 4-5 4-5 4-5	4-5 5 5 4-5	4-5 4-5 4-5 4-5	5 5 5 4-5	5 5 5 4-5	5 5 5 4-5	5 5 5 4-5	4-5 5 4-5 4-5
5	5	5	5	5	5	4-5	4-5	5	5	5	5	5	5
4-5	4-5	4	4	4	4	4	4	5	4	4-5	4-5	4-5	3-4
4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5
3-4 2-3	4-5 4	5 4-5	4 3	4 3-4	2 1	3-4 2-3	3-4 2	4 3	4-5 3-4	4-5 4-5	4-5 4	3-4 3-4	4-5 4-5
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	3
4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4	4-5 4-5 4-5	4-5 4-5 4	4-5 4-5 4-5	4-5 4-5 3	4-5 3-4 3-4	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5
4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 3-4	4-5 3-4	4-5 3	4-5 2-3	4-5 4-5	4-5 4-5	4-5 4-5	4-5 3
4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5
4 4-5 4-5 4-5	5 5 4-5 4-5	4-5 4-5 4-5 4-5	5 5 4-5 4-5	4-5 5 5 4-5	5 5 4-5 4-5	5 4-5 4-5 5	5 4-5 4-5 4-5	4-5 4-5 3-4 4	4-5 4-5 4-5 4-5	4-5 5 5 4-5	5 5 5 4-5	4-5 3-4 5 4-5	4-5 5 5 4-5
4 4-5 4-5 4-5	4-5 5 5 4-5	4-5 4-5 5 4-5	4-5 5 5 4-5	4 5 5 4-5	4-5 5 5 4-5	4-5 4-5 5 5	4-5 5 5 4-5	3-4 4-5 4-5 4-5	4-5 4-5 5 4-5	4-5 5 5 4-5	4-5 5 5 4-5	4-5 4-5 5 4-5	4-5 5 5 4-5
5 4 5 5	4-5 5 5 5	5 4-5 4-5 5	5 4-5 4-5 4-5	5 4-5 4-5 5	5 4-5 4-5 5	5 4-5 4-5 5	4-5 4 4-5 4-5	4-5 4 4-5 4-5	4-5 5 4-5 5	5 4 4-5 5	5 4-5 5 5	5 4-5 4 5	5 3-4 4 4-5
5	4-5	5	2-3	2-3	2	2	2	2	4-5	4	4	4-5	2

CS=Change of Shade, SW=Staining on Wool, SP=Staining on Polyamide, SC=Staining on Cotton

Polyamide		Wool		Segaset
1/1	2/1	1/1	2/1	
				Yellow 4GN
1.30%	2.60%	1.65%	3.30%	
				Yellow 2R
1.50%	3.00%	1.43%	2.86%	
				Orange RN
1.80%	3.60%	2.00%	4.00%	
				Red G
1.10%	2.20%	1.80%	3.60%	
				Bordeaux B
0.95%	1.90%	1.05%	2.10%	
				Violet B
1.70%	3.40%	1.80%	3.60%	
				Blue 2R
2.00%	4.00%	2.27%	4.54%	
				Blue 5G
2.20%	4.40%	2.40%	4.80%	
				Green B
1.90%	3.80%	2.00%	4.00%	
				Navy R
2.20%	4.40%	2.40%	4.80%	
				Brown G
1.40%	2.80%	1.43%	2.86%	
				Brown B
1.20%	2.40%	1.55%	3.10%	
				Grey G
1.00%	2.00%	1.55%	3.10%	
				Black B
3.00%	6.00%	3.00%	6.00%	

Fastness Properties 1/1 S/D

Solubility at 90°C(g/l)

Fastness to Light
AATCC 16E 40 AFU

Fastness to Light
ISO 105 B02 (BlueScale)

Fastness to Washing
ISO 105 C02,50°C

SC
SW
SP
SC

Fastness to Washing
ISO 105 C03,60°C

SC
SW
SP
SC

Fastness to Perspiration
ISO 105 C04
(Alkaline)

SC
SW
SP
SC

Fastness to Perspiration
ISO 105 C04
(Acidic)

SC
SW
SP
SC

Fastness to Rubbing
ISO 105x12

Dry
Wet

Fastness to Dry Cleaning
ISO 105 D01

CS
SW
SP
SC

Chlorinated Water
ISO 105 E03

20 PPM
50 PPM

PVC Migration
ISO 105x10

Hot Pressign
ISO 104x11 1994
Immediate

Dry Press → CS
Damp Press → CS
Wet Press → CS
SC

Hot Pressign
ISO 104x11 1994
After Conditioning

Dry Press → CS
Damp Press → CS
Wet Press → CS

Fastness to Water
ISO 105 E01

CS
SW
SP
SC

Fastness to Sea Water
ISO 105 E02

CS
SW
SP
SC

Fastness to Hot Water 70°C
ISO 105 E08

CS
SW
SP
SC

Dischargeability
(Zn Sulfoxylate Formaldehyde)

Fastness Properties On Wool

Y.4GN	Y.2R	Or.RN	R.G	Bord.B	Vi.B	B.2R	Bl.5G	Green.B	Na.R	Br.G	Br.B	Gr.G	Bk.B
1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
80	80	65	80	65	100	100	80	65	90	70	90	90	65
4-5	4-5	4-5	4-5	3-4	3-4	3-4	4	4	4	4-5	4-5	4-5	4-5
6+	5-6	6	5-6	5	5-6	5-6	5-6	5-6	6	6	6-7	6	6
4 4-5 5 4-5	4 4-5 4-5 4-5	4 4-5 5 4	4-5 4 4 4-5	4 4-5 4 4-5	4-5 3-4 4-5 4-5	4-5 3-4 4-5 4-5	4 4-5 3-4 4-5	4 4-5 4-5 4-5	5 4 3-4 4-5	4-5 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4-5 3-4 3 4	4-5 3-4 2-3 3-4
4-5 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4-5 3-4 3-4 4-5	4-5 3-4 3-4 4-5	4-5 3-4 4-5 4-5	4-5 3-4 4-5 4-5	4-5 3-4 4-5 4-5	4-5 4-5 4-5 4-5	4-5 2-3 2 4	4-5 3 3-4 4-5	4-5 4-5 2-3 4-5	4-5 2-3 4 4	4 3-4 2 4-5
4-5 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4-5 4-5 4-5 4-5	4-5 3-4 3-4 4-5	4-5 3-4 3-4 4-5	4-5 3-4 4-5 4-5	4-5 3-4 4-5 4-5	4-5 3-4 4-5 4-5	4-5 4-5 4-5 4-5	4-5 2-3 2 4	4-5 3 3-4 4-5	4-5 4-5 2-3 4-5	4-5 2-3 4 4	4 3-4 2 4-5
5 4-5 5 4-5	4-5 4-5 5 4-5	5 5 5 4-5	5 5 5 4-5	5 5 4-5 4-5	5 4-5 5 4-5	5 4-5 5 4-5	5 5 5 4-5	5 5 5 4-5	5 5 4-5 4-5	5 5 5 4-5	5 5 5 4-5	5 4-5 5 4-5	5 5 4-5 4-5
5	5	5	5	5	4-5	4-5	5	5	4-5	4-5	5	5	5
4-5	4-5	4	4	4	4	4	4	5	4	4-5	4-5	4-5	3-4
4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5	4 4-5 4-5 4-5
4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4 4	4 4	4 4	4 4	4-5 4-5	4 4	4 4	4-5 4-5	4-5 4-5
4-5	4-5	4-5	3-4	4-5	3-4	3-4	3-4	4-5	4-5	4-5	3-4	2-3	3-4
4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5
4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5
4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5
4-5 4-5 5 4-5	4-5 4-5 5 4-5	5 5 5 4-5	5 4-5 5 4-5	5 4-5 5 4-5	5 4-5 4-5 4-5	5 4-5 4-5 4-5	5 4-5 4-5 4-5	5 5 5 4-5	5 4-5 5 4-5	5 5 5 4-5	5 4-5 5 4-5	5 5 5 4-5	5 5 5 4-5
5 4-5 5 4-5	4-5 4-5 4-5 4-5	4-5 5 5 4-5	5 4-5 5 4-5	5 4-5 5 4-5	5 4-5 4 4-5	5 4-5 4 4-5	5 4-5 4-5 4-5	4-5 5 5 4-5	5 4-5 5 4-5	5 5 5 4-5	5 5 5 4-5	5 5 5 4-5	5 5 5 4-5
5 4 5 5	4-5 5 5 5	5 4-5 4-5 5	5 4-5 4-5 4-5	5 4-5 4-5 5	5 4-5 4-5 5	5 4-5 4-5 5	4-5 4 4-5 4-5	4-5 4 4-5 4-5	4-5 4 4-5 5	5 4-5 4-5 5	5 4-5 4-5 5	5 4-5 4-5 5	5 3-4 4 4-5
5	4-5	5	2-3	2-3	2	2	2	2	4-5	4	4	4-5	2

CS=Change of Shade, SW=Staining on Wool, SP=Staining on Polyamide, SC=Staining on Cotton

Combination shades with Segaset dyes

(Dyeingat98°C/45min.)

Segaset on Polyamide				Segaset on Wool			
Segaset		Segaset		Segaset		Segaset	
	Yellow4GN 1.80% OrangeRN 0.06%		Yellow2R 1.10% RedG 0.012% BrownB 0.085%		Yellow4GN 2.00%		Yellow2R 0.70% RedG 0.70% GreyG 0.25%
	01		11		01		11
	Yellow4GN 2.90% OrangeRN 0.18%		Yellow2R 0.07% RedG 0.04% GreyG 0.16%		Yellow4GN 2.00% OrangeRN 0.085%		Yellow2R 0.50% RedG 0.50% GreyG 0.50%
	02		12		02		12
	Yellow2R 1.10% OrangeRN 0.37% BrownG 0.80%		Yellow2R 0.04% RedG 0.10% GreyG 0.70%		Yellow4GN 1.00% OrangeRN 1.00%		OrangeRN 0.50% RedG 0.20% NavyR 0.80%
	03		13		03		13
	OrangeRN 0.91% RedG 0.80%		Yellow2R 1.30% RedG 0.33% GreyG 0.15%		OrangeRN 1.60% RedG 0.10%		Yellow2R 0.70% RedG 0.40% GreyG 1.40%
	04		14		04		14
	RedG 3.00% BordeauxB 0.10%		Yellow2R 0.73% BrownB 0.197% GreyG 0.02%		Yellow4GN 0.50% RedG 2.00%		Yellow4GN 1.00% RedG 0.50% NavyR 1.00%
	05		15		05		15
	Yellow2R 0.02% RedG 0.70% BordeauxB 1.50%		Yellow4GN 1.20% GreenB 1.40%		Blue2R 1.00% Blue5G 1.00%		Yellow2R 1.00% NavyR 1.50%
	06		16		06		16
	Yellow4GN 0.02% Blue5G 0.60% GreenB 1.10%		Yellow4GN 0.70% RedG 0.07% GreenB 2.50%		Yellow4GN 1.50% Blue5G 1.00%		OrangeRN 0.50% NavyR 2.00%
	07		17		07		17
	Blue2R 1.70% Blue5G 0.90% GreyG 0.03%		Yellow2R 0.13% Blue2R 1.00% NavyR 1.30%		Blue2R 1.00% VioletB 0.50%		OrangeRN 0.50% NavyR 3.00%
	08		18		08		18
	VioletB 0.70% Blue2R 1.50%		RedG 0.50% NavyR 2.50%		Blue2R 0.50% VioletB 1.00%		RedG 0.80% BlackB 3.00%
	09		19		09		19
	OrangeRN 0.16% VioletB 2.00% Blue2R 0.14%		Yellow2R 1.00% BlackB 2.50%		Blue2R 0.50% NavyR 1.00%		Yellow2R 1.25% RedG 1.25% NavyR 3.00%
	10		20		10		20

Segaset dyes for Polyamide / Wool

Segaset is the dye range for

- Simple, cost-effective application
- High fastness properties in processing and use without after treatment
- Good reproducibility
- Application on Nylon,Silk and Wool

Segaset Range of Dyes offers

- Wide Range of dyes
- On tone exhaustion
- Good levelling and migration behavior
- Good light and wet fastness
- Right first time dyeing effect.

Segaset Dyes can be applied on

- Loose fibres
- Sliver tops in Package form [Bumps]
- Yarn hank form
- Yarn package form
- Fabric form

End use application of Segaset dyed material

- Men's & Women's outerwear, swimwear.
- Knit goods
- House hold,decorative and upholstery fabrics
- Carpets and flooring fabrics

Dissolving the dyes

Paste the dyes with cold water,then add boiling water or boil up briefly.

Dyebath pH

Irrespective of shade depth and stage of processing, Segaset dyes are applied at pH 4.5 on all the substrates mentioned earlier on this leaflet.

General exhaust dyeing method:

Dyeing Method

Set the dyebath at 40 C with 1 gpl Segalevel SET , 1 gpl Segacid PAD .
Run for 10 mins,Add Segaset Dyes run again for 10 mins.
Raise the temperature to 98 C , 1 C /min , hold for 60 mins cool and rinse.



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