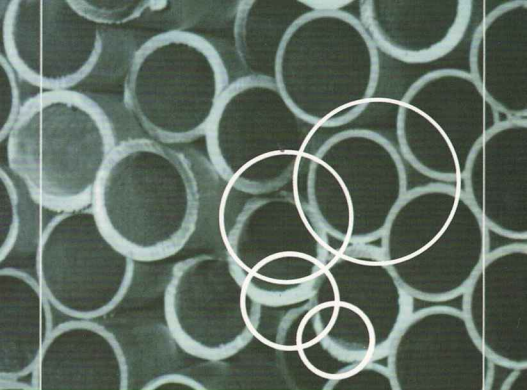




nylanthrene

dyes for polyamide



yorkshire

**NYLANTHRENE
DYESTUFFS
Polyamide**

Yellow*
B-4NGL

Yellow
B-4RKN

Yellow
B-5R

Orange
B-RG 80%

Red
B-NG

Red
B-2BSA

Pink
B-LRF

Blue
B-2RF

Blue
B-NL

Blue
B-AR

Blue
B-2GL

Yellow*
C-4GL

Yellow
C-FLW

Yellow
C-3RL

PA6.6

Concentration %			1.0	1.0	1.0	1.2	1.0	1.1	2.0		1.5	1.5	1.0	1.5	0.9	2.0	2.0
Solubility at 90°C/g/l			70	90	30	75	25	20	10		40	40	20	50	80	50	90
Artificial Light			R	R	R	R	Y	Y	Y		R	D	G	G	R	R	R
Lightfastness Xenotest ISO 105-B02	1/12		5	6	5-6	5-6	6-7	6	5		6-7	5-6	6-7	6-7	6-7	6	4-5
	1/3		6	6-7	6	6	6-7	6-7	6-7		7	5-6	6-7	6-7	7	7	6
	1/1		6-7	7	7	6-7	7	6-7	7		7-8	6	7	7	7	7-8	6
Water ISO 105-001	N	SC	4-5	4-5	5	5	4-5	4-5	4-5		4	4	4	4	5	5	4-5
		PA	3-4	4	3	4	3-4	4-5	4		3	3-4	3-4	3-4	5	4	4
	A	SC	5	5	5	5	5	5	5		4-5	5	5	4-5	5	5	5
		PA	5	5	5	5	5	5	5		4-5	5	4-5	5	5	5	5
Washing 40°C ISO 105-C06 A25 1997 see note	N	SC	4-5	4	3-4	4	4	4	4-5		3-4	3	3-4	3-4	5	4	4
		PA	5	5	5	5	4-5	4-5	4-5		4	4	4	4-5	5	4-5	5
	A	SC	5	5	5	5	5	5	5		4	4-5	4	4-5	5	5	5
		PA	5	5	5	5	5	5	5		5	5	5	5	5	5	5
Alkaline Perspiration ISO 105-E04	N	SC	4-5	4-5	5	5	4-5	4	4-5		4	4	4-5	4	5	4-5	4-5
		PA	3-4	4	3	4	3-4	4	4		3	3	3	3-4	4-5	4	4
	A	SC	4-5	5	5	5	5	5	5		4-5	5	5	4-5	5	5	5
		PA	5	5	5	5	5	5	5		4-5	5	4	5	5	5	5
Sea Water ISO 105-E02	N	SC	5	4-5	5	5	4-5	4-5	4-5		4	4	4	4	5	4-5	4-5
		PA	3-4	4	3-4	4	3-4	4	4		3	3	3-4	3-4	5	4	4
	A	SC	5	5	5	5	5	5	5		4-5	5	4-5	4-5	5	5	5
		PA	5	5	5	5	5	5	5		4-5	5	5	5	5	5	5
Chlorinated Water (100mg/l act.Cl) ISO 105-E03	N	SC	4D	5	3DG	3Y	2-3	2-3	1-2		2-3D	3D	1WD	2-3D	3	4-5Br	4Br
	A	SC	4D	5	3DG	3Y	1-2	2-3	1-2		2-3D	3D	2WD	2-3D	3	4-5	4-5Br
	CW	SC	3R	4-5D	4-5	4Y	4Y	5	3-4		4	4	4D	4Y	3-4	3-4	4Br

Note

Wash test results for Nylanthrene B dyes are based on dyeings of 1:3 standard depth.

Wash test results for Nylanthrene C dyes are based on dyeings of standard depth.

Orange
C-SLF

Orange
C-ALG

Red
C-3BR

Red
C-RA

Red
C-2B

Red
C-2RBL

Red
C-B

Bordeaux
C-B

Rubine
C-5BL 200

Violet
C-B

Blue
C-GLF

Navy
C-RN

Black
C-RF

Black
C-WLX

NYLANTHRENE DYESTUFFS Polyamide

May be catalytically faded by
anthraquinonedyes (eg blues
and greens) under certain conditions
-see JSDC 108, 1992, 269

2.0	2.0	1.0	2.0	1.5	1.35	2.0		2.0	1.0	1.5	1.5	2.0	3.0	4.0			Concentration %
60	30	30	25	30	100	30		35	40	50	70	100	80	80			Solubility at 90 °C/g/l
R	R	Y	Y	Y	Y	Y		Y	Y	DR	DR	D	G	R			Artificial Light
4-5	4-5	3	3	5	4-5	3-4		5	4-5	5	5	-	-	-			1/12
5-6	5-6	4	3-4	6	5	3-4		6	5	5-6	5-6	-	-	-			1/3
6	6	5	4	6-7	5-6	4		6-7	6	6	6	5-6	6	6-7			1/1
4-5	5	4	5	5	4-5	5		4-5	4-5	5	4-5	4-5	4	5		SC	N
4	4-5	3-4	5	4	4-5	5		4	4-5	5	4-5	4-5	3-4	4-5		PA	
5	5	5	5	5	5	5		5	5	5	5	5	4-5	5		SC	
5	5	5	5	5	5	5		5	5	5	5	5	4-5	5		PA	A
4	4	4-5	5	4-5	4-5	5		4	4	5	4	4-5	4	5		SC	
5	4-5	3-4	4-5	4-5	4	5		5	5	5	3-4	2-3	3	3		PA	
5	5	5	5	5	5	5		5	5	5	5	4-5	4	5		SC	A
5	5	4-5	5	5	4	5		5	5	5	4	4	4-5	5		PA	
4-5	5	4	5	5	4-5	5		4-5	4-5	5	4-5	4-5	4	5		SC	
4	4-5	3-4	4-5	4	4-5	4		4	4	4-5	4-5	2	3	4		PA	N
5	5	5	5	5	5	5		5	5	5	5	4-5	4	5		SC	
5	5	4-5	5	5	5	5		5	5	5	5	4-5	4	5		PA	
4-5	5	4-5	5	5	4	5		4-5	4-5	5	4-5	4-5	4	4-5		SC	N
4	4-5	3-4	5	4	4	5		4	4	5	4-5	4	4	4-5		PA	
5	5	5	5	5	5	5		5	5	5	5	5	5	5		SC	
5	5	5	5	5	5	5		5	5	5	5	5	4-5	5		PA	A
4	2	4-5	4	3	2W	4-5		1	1	2-3	2G	3R	2-3R	3R		SC	
4	2	4-5	4	4	2-3W	5		1	1	3-4	2G	3R	2-3R	3R		SC	
4	3	4Br	4-5	5	5	5		3R	3R	4-5	3-4G	4R	4-5	5		SC	CW

Lightfastness
Xenotest
ISO 105-B02

Water
ISO 105-E01

Washing 40°C
ISO 105-C06 A25:1997

see note

Alkaline
Perspiration
ISO 105-E04

Sea
Water
ISO 105-E02

Chlorinated
Water
(100mg/l act.Cl)
ISO 105-E03

abbe violations

N untreated
A aftertreated
(with 2% Dyapol SB40)
SC shade change
PA stain on polyamide
CW aftertreated
(with 5% Intratex CW)
B blue
Br brighter
D duller
G greener
R redder
Y yellow
W weaker

recommended trichromats for apparel

For pale shades:

Nylanthrene Yellow B-5R

Nylanthrene Red B-NG

Nylanthrene Blue B-2RF

Nylanthrene Yellow C-3RL

Nylanthrene Red C-2RBL

Nylanthrene Navy C-RN

For maximum economy-medium/dull tertiary shades:

Nylanthrene Orange C-SLF

Nylanthrene Rubine C-5BL 200

Nylanthrene Navy C-RN

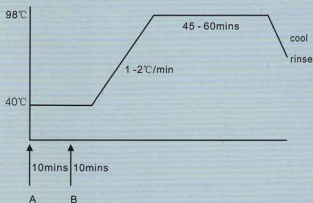
recommended trichromat for carpets

Nylanthrene Yellow B-5R

Nylanthrene Red B-2BSA

Nylanthrene Blue B-AR

Dyeing profile for nylanthrene b & c dyestuffs



A Intratex AL new
Ammonium Sulphate
Acetic Acid

B Nylanthrene Dyes

trichromats for swimwear

For pale to medium shades:

Use Nylanthrene B trichromat for

- excellent levelling
- excellent compatibility
- excellent migration properties

Recommended trichromat

Nylanthrene Yellow B-5R

Nylanthrene Red B-NG

Nylanthrene Blue B-2RF

For medium to dark shades:

Use Nylanthrene C trichromat for higher wet fastness

Recommended trichromat

Nylanthrene Yellow C-3RL

Nylanthrene Red C-2RBL

Nylanthrene Blue C-GLF

Improvement in chlorine fastness

Fastness to chlorinated water can be significantly improved by aftertreating with Intratex CW

Method:

Set bath at 40°C with 4% **Intratex CW**

Adjust to pH 4.0-4.5 with acetic acid

Raise to 70°C at 2-3°C/minute

Run for 20 minutes

Cool and rinse

general exhaust dyeing method

Preparation

- Alkaline scour
1ml/l **Dyamul SLX New**
2g/l sodium carbonate
60°C for 20 minutes

General Dyeing Method

	Shade	Intratex AL New	Ammonium Sulphate
Nylanthrene B	light	2.0 - 1.0%	
	medium	1.0 - 0.5%	1.0 - 2.0g/l
Nylanthrene C	medium	2.0 - 1.0%	
	dark	1.0 - 0.5%	1.0 - 2.0g/l

- Start bath at 40°C with **Intratex AL new**, ammonium sulphate - pH 5-6 with Acetic Acid.
- Add the dissolved dyestuffs.
- Run for 15 minutes and check the pH.
- Raise to 98°C over 30-40 minutes and dye for 30-60 minutes at that temperature.
- If necessary complete exhaustion by adding further acetic acid.

Aftertreatment

- In a fresh bath with:-
2% **Dyapol SB-40** at pH 4.5 with acetic acid at 60 - 70°C for 20 minutes.

Auxiliaries

DYAMUL SLX New is an APEO free low foaming multi-purpose detergent designed to give an excellent combination of wetting and detergency across a wide range of application conditions.

Intratex AL new is a cationic levelling agent with anti-Barré properties and is recommended for producing level dyeings with minimum barréness.

Dyapol SB-40 is a powerful syntanning agent recommended for improving the wet fastness of acid and metal complex dyes.

nylanthrene dyes

Nylanthrene dyes are ideally suited to the dyeing of polyamide 6 or 6.6.

They can be used in neutral, or even alkaline dyebaths, in order to ensure outstanding levelness.

Their very good migration properties assure an excellent coverage of barréness.

They have high light and wet fastnesses.

Nylanthrene B dyes give:

- the best level dyeing
- the best coverage
- the best migration

Nylanthrene C dyes give:

- the highest levels of wet fastness