

DyStar[®] 

Working for your benefit.

NEW

Isolan[®] NHF

We open up new perspectives in polyamide dyeing



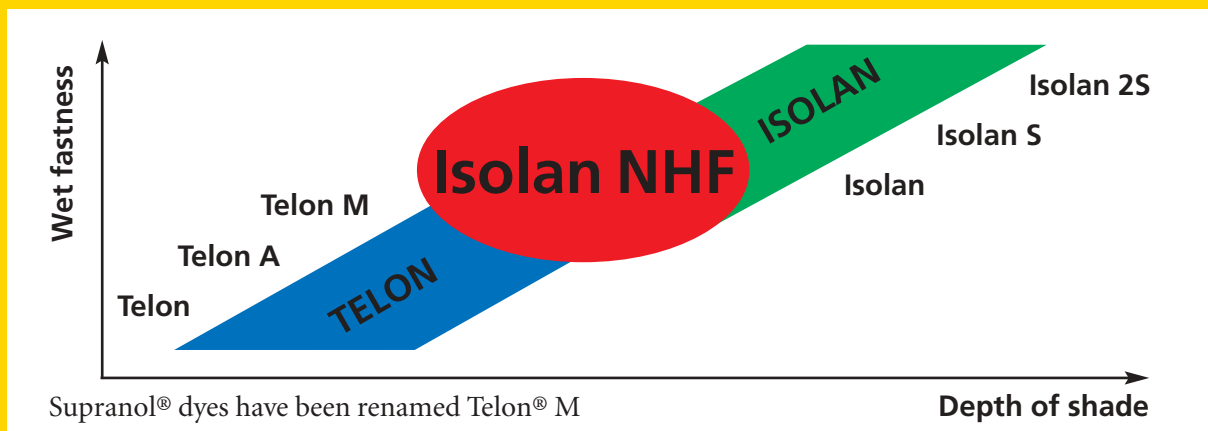
Isolan NHF – The new compact dye range for polyamide

Isolan NHF is a new range of dyes, which meets the most stringent requirements for high-end polyamide fabrics. To achieve all technical demands, we market various ranges of dyes for different depths of shades and different levels of brilliancy. Isolan NHF dyes are recommended for medium to deep shades and ensure high wet fastness. They cover a wide shade range.

Isolan NHF range is suitable for many knitted and woven polyamide fabrics and polyamide blends for various applications such as: sportswear and swimwear, pantyhose and support hosiery, underwear and foundation garments, elastic strips and lace.

Benefits of Isolan NHF at a glance

- Broad spectrum of shades
- High light fastness
- High wet fastness, even in deep shades
- Excellent build-up
- Moderate migration and levelling properties
- Stable to heat setting
- Excellent compatibility
- Good reproducibility



Fastness properties of Isolan NHF

	%	↕	Xenon lamp ISO B02 SD		Washing 40 °C ISO 105-C01			Washing 60 °C ISO 105-C03			Water, severe ISO E01			Perspiration, alkaline ISO E04			Chlorinated water 100 ppm ISO E03
			1/12	1/1	Ch	PA	CO	Ch	PA	CO	Ch	PA	CO	Ch	PA	CO	Ch
Yellow NHF	1.8	↕	6	7	5	5	5	5	5	5	5	5	5	5	5	5	2
		↕			5	5	5	5	5	5	5	5	5	5	5	5	5
Yellow NHF-S	1.8	↕	6	7	5	5	5	5	4-5	5	5	5	5	5	5	5	2
		↕			5	5	5	5	4-5	5	5	5	5	5	5	5	5
Red NHF-S	1.2	↕	6	7	5	5	5	5	5	5	5	5	5	4-5	5	2	
		↕			5	5	5	5	5	5	5	5	5	5	5	5	5
Brill. Red NHF	1.0	↕	5-6	6	5	5	5	5	5	5	5	4-5	5	5	4-5	5	2
		↕			5	5	5	5	5	5	4-5	5	5	4-5	5	5	5
Dark Blue NHF	1.8	↕	5-6	6-7	5	5	5	5	5	5	5	5	5	5	5	5	2
		↕			5	5	5	5	5	5	5	5	5	5	5	5	5
Blue NHF-S	1.1	↕	5-6	6-7	5	5	5	4-5	4	4	4-5	5	5	5	4-5	4-5	2
		↕			5	5	5	5	4-5	4-5	5	5	5	5	5	5	5
Grey NHF-S	1.1	↕	5-6	6-7	5	5	5	4-5	4	5	5	5	5	4-5	5	5	2
		↕			5	5	5	5	4-5	5	5	5	5	5	5	5	5

Trichromatic dyeing: Isolan NHF-S (Specially recommended for best tone-in-tone results on PA/PU blends) 1st. fastness figure = without aftertreatment
 Complementary dyes: Isolan NHF 2nd. fastness figure = with aftertreatment
 Dyed on polyamide 6.6 (Helanca)

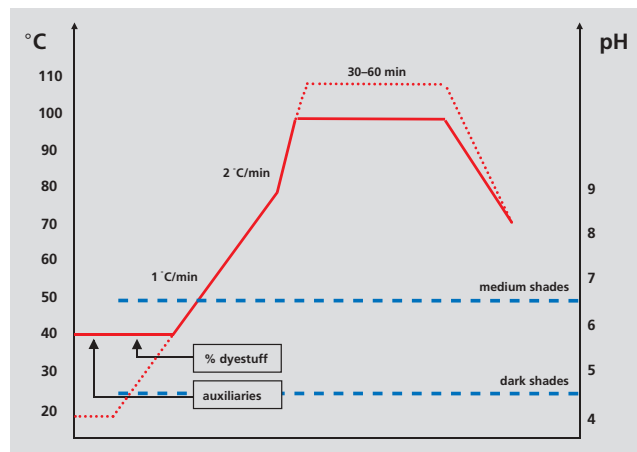
Dyeing process

0.5% Avolan® IS (Bayer) (Dispersing agent)
 1-0.5% Levegal® FTS-K (Bayer) (Levelling agent)
 adjust pH with buffer system as recommended in the "Polyamide S process"
 X% Isolan NHF dyes

pH values

% of dyes	1-2	2-3	3-4	4-5
SF = 1.4	6.0	5.0	4.5	—
SF = 1.7	6.5	5.5	5.0	4.5
SF = 2.1	7.0	6.0	5.5	5.0
SF = 2.5	7.5	6.5	6.0	5.5

SF: Fibre saturation factor



Aftertreatment (if necessary)

To improve wet fastness: 4% Mesitol® NBSJ liq or Mesitol MBF (Bayer); pH 4.5 with acetic acid. At room temperature, adjust pH to 4.5, run for 5 minutes, then add the fixing agent. Heat to 75 °C and aftertreat for 20 minutes.

Note: To prevent precipitation, avoid adding the fixing agent with concentrated acid.

To improve fastness to chlorinated water: 5% Bayprotect® CL (Bayer), pH 4.5, 70 °C x 20 min.

A full range of products, global service and ongoing innovation create tangible benefits for our customers. Worldwide.



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