



Acid Dyes



**DEO PIYU INDUSTRIES**  
MANUFACTURER EXPORTER OF DYESTUFFS

**COLOR**

*Chemistry for ever...*

An ISO 9001 : 2015 CERTIFIED COMPANY

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## GENERAL DYEING METHODS FOR ACID DYE STUFF ON POLYAMIDE

### METHOD 1 (DYEING OF METAL COMPLEX A AND FEW ACID DYES)

Enter the scoured - washed material into a bath of soft water containing :  
 2-4 gpl Sulphuric Acid 98% or  
 3-5 gpl Formic Acid 85%  
 1-2 gpl Levocol CBSE (Leveling agent)

Run the goods for 10 minutes at 40°C with pH 2-3. Add properly dissolved dyestuff and run for 10 minutes.

Raise the temperature to 98°C in 30 minutes and continue dyeing for 45-60 minutes. Rinse warm and cold.

### METHOD 2 (DYEING OF ACID, ACID MILLING DYES)

Bath is prepared in soft water with

- 2-4 gpl Acetic Acid 60% or
- 1.5-3 gpl Formic Acid 85%
- 1-2 gpl Levocol CBSE\*

Run the goods for 10 minutes at 40°C with pH 4.5-5.5 Add properly dissolved dyestuff and run for 10 minutes. Raise the temperature to 98°C in 30 minutes and continue dyeing for 45-60 minutes.

For complete exhaustion, add

- 1-2 gpl Acetic Acid 60% or
- 1-2 gpl Formic Acid 85%

and continue dyeing for 30 minutes Rinse warm and cold.

### METHOD 3 (METAL COMPLEX ACID DYES)

Bath is prepared in soft water with

- 2-4 gpl Ammonium Sulphate OR
- 3-4 gpl Ammonium Acetate
- 1-2 gpl Levocol CBSE\*

Run for 10 minutes at 40°C with pH 5.5-6.5

Add properly dissolved dyestuff and run for 10 minutes. Raise to boil over 50 mins. and continue dyeing for 45-60 mins.

For complete exhaustion of the bath add :

0.5 - 1.5 gpl Acetic Acid 60% and continue dyeing for 20-30 minutes. Rinse warm and cold.

The information provided in the pattern card is in good faith, to the best of our knowledge and based on laboratory working conditions, hence without liability

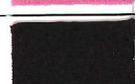
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Acid Dyes 2%	Product Name	Dyeing Method	Solubility	Fastness properties					Dischargeability
				Light	Wash at -50°C	Perspiration	Chlorination (alt)		
	Acid Yellow 2G Yellow 17	3	80	6	4	4-5	5		G
	Acid Tartrazine Yellow 23	3	90	5	4-5	4	5		G
	Acid Yellow NFG Yellow 49	3	60	5-6	2-3	3	—		G
	Acid Yellow E2GL Yellow 29:1	3	60	5-6	4-5	4-5	—		G
	Acid Yellow 3GL Yellow 34	1	60	7	2	2	—		G
	Acid Yellow 5GN Yellow 110	3	90	5	5	5	5		G
	Acid Yellow MR Yellow 42	3	50	4-5	4-5	4-5	5		F
	Acid Yellow 4R Yellow 219	3	30	5	3-4	3	—		—
	Acid Fast Yellow 4GF Yellow 79	3	80	5-6	4	4-5	—		G
	Acid Yellow 5GL Yellow 127	4	60	5-6	4	5	—		G
	Acid Yellow 4GL Yellow 166	4	60	6	3-4	2	—		G
	Acid Golden Yellow G Yellow 36	3	80	4	3	4	3		G
	Acid Yellow E-4RL Yellow 199	3	40	6-7	4-5	5	—		M
	Acid Orange E-3R Orange 3	3	80	3	4	3	4-5		P
	Acid Orange G Orange 10	3	80	5	4-5	3	3		G

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Acid Dyes 2%	Product Name	Dyeing Method	Solubility	Fastness properties				Dischargeability
				Light	Wash at - 50°C	Perspiration	Chlorination (alt)	
	Acid Orange A-R Orange 67	4	70	4-5	5	5	—	G
	Acid Orange CR Orange 116	3-4	60	5-6	5	4-5	3	G
	Acid Brilliant Orange G Orange 56	3	80	6-7	4	5	1	G
	Acid Orange II Orange 7	3	70	4	4-5	3	3	G
	Acid Orange GRL Orange 94	4	80	6-7	4-5	4-5	3	M
	Acid Red G Red 97	3	50	4	4	4-5	4	G
	Acid Scarlet 3R Red 18	3	80	4-5	3	3	4	M
	Acid Red B Red 14	3	80	3	4-5	3	1	M
	Acid FAST Red A Red 88	3	40	3	3	3	1	G
	Acid Red GRS Red 97	3	60	4-5	4	4	3	G
	Acid Red RS Red 114	4	80	4	5	4	4	G
	Acid Red F-RL Red 337	3-4	30	5	4	5	—	—
	Acid Red NRS Red 141	2	20	3	2	2	2	G
	Acid Red 3B Red 57	3-4	70	6-7	5	4-5	3-4	G
	Acid Red 2G Red 1	3	80	4	5	4-5	2	M

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Acid Dyes 2%	Product Name	Dyeing Method	Solubility	Fastness properties				Dischargeability
				Light	Wash at - 50°C	Perspiration	Chlorination (alt)	
	Acid Red BL Red 106	2-3	80	5	3-4	3	—	G
	Acid Red F2R Red 151	3-4	30	4	4	4	4	G
	Acid Red 3BN Red 131	3-4	80	4	5	4	5	G
	Acid Red 2BN Red 249	3-4	80	4-5	2	4	3-4	G
	Acid Rhodamine B Red 52	3	80	3	3	4	1	P
	Acid Maroon V Red 119	3-4	70	5	5	5	3	G
	Acid Violet 10B Violet 54	3	70	4	5	4-5	4	G
	Acid Violet 4BH Violet 17	3	60	3	3	4-5	4	M
	Acid Patent Blue VS Blue 1	2-3	80	3	3	2-3	3-4	M
	Acid Patent Blue AS Blue 7	2-3	70	3	3	3	3-4	M
	Acid Brilliant Blue FCF Blue 9	3	80	3	3	3-4	—	F
	Acid Brilliant Blue FF Blue 15	3	70	3	3	4	4	G
	Acid Navy Blue S5R Blue 113	3-4	70	5	4	4	3	M
	Acid Veporaid PXE Green 1	3	80	5	5	4	2-3	F
	Acid Green V Green 16	3	70	3	3	4	3-4	G

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Acid Dyes 2%	Product Name	Dyeing Method	Solubility	Fastness properties				Dischargeability
				Light	Wash at -50°C	Perspiration	Chlorination (alt)	
	Acid Dark Green BN Green 68	3	70	6	4-5	4-5	—	F
	Acid Dark Green A Green 20	2-3	70	3	3	4	4	M
	Acid Brown NR Brown 75	3	70	4-5	4	4	—	F
	Acid Black 10BX Black 1	3	70	5	3	4	4	G
	Acid Black WR Black 2	3	50	5	4	4	—	M
	Acid Black BR Black 24	3	60	5	4	3	4	F
	Acid Black VL Black 26	3	50	4	3-4	4	4	M
	Acid Black NT Black 210	3	70	6	3	3	—	G
	Acid Black NB Black 234	3	70	6	4	4-5	—	M
	Acid Black AT ---	3	70	4	3	4	3	F

### Metal Complex Dyes

	Acid Yellow S2G 1:2 Yellow 220	3	60	6-7	5	5	4	—
	Acid Yellow M5RL 1:2 Yellow 204	3	60	6	4-5	4-5	---	—
	Acid Yellow GR 1:1 Yellow 99	3	40	3	3	4	5	P
	Acid Yellow MR 1:2 Yellow 151	4	60	6-7	5	5	—	G

Acid Dyes 2%	Product Name	Dyeing Method	Solubility	Fastness properties				Dischargeability
				Light	Wash at - 50°C	Perspiration	Chlorination (alt)	
	Acid Yellow M3RL 1:2 Yellow 194	3	60	4-5	4	4-5	4-5	M
	Acid Yellow SG 1:2 Yellow 232	3	60	5-6	3	4	—	—
	Acid Yellow 3R 1:2 Yellow 137	3	60	6-7	4-5	5	4-5	M
	Acid Orange 3RL 1:2 Orange 162	3	60	6-7	4-5	4-5	5	—
	Acid Orange G 1:1 Orange 74	3	60	6-7	4	4	4	M
	Acid Orange RL 1:2 Orange 86	4	40	6-7	5	5	4	G
	Acid Orange MRL 1:2 Orange 142	3	50	6-7	5	4	4	G
	Acid Orange 2RL 1:2 Orange 60	4	50	6-7	3	4	—	P
	Acid Orange 2SRL 1:2 Orange 154	3	50	6-7	5	5	4	—
	Acid Red GRE 1:1 Red 183	3	60	5	4-5	5	3-4	P
	Acid Scarlet ML 1:2 Red 357	3	80	4-5	4	4-5	4-5	M
	Acid Red MBR 1:2 Red 362	3	50	4	4-5	4-5	4	—
	Acid Red H 1:2 Red 423	3	80	6-7	5	5	—	—
	Acid Red SG 1:2 Red 315	3	80	6-7	4-5	5	—	—
	Acid Red S-RL 1:2 Red 414	3	80	6-7	5	4-5	—	—

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Acid Dyes 2%	Product Name	Dyeing Method	Solubility	Fastness properties				Dischargeability
				Light	Wash at - 50°C	Perspiration	Chlorination (alt)	
	Acid Pink M 1:1 Red 186	3	50	5	5	4	4	P
	Acid Red BRS 1:2 Red 182	4	30	7-8	4	4-5	—	M
	Acid Bordeaux BR 1:2 Violet 90	4	30	4-5	4	4	4-5	P
	Acid Blue 2G 1:1 Blue 158	3	70	5	5	4	3	G
	Acid Blue MTR 1:2 Blue 193	4	70	6	4	4	4-5	M
	Acid Olive Green G 1:2 Green 73	3-4	60	6	4	5	5	P
	Acid Green MGBL 1:2 Green 104	3	70	6-7	4-5	4-5	4-5	F
	Acid Brown M2RL 1:2 Brown 365	3	50	4-5	4-5	4-5	4-5	M
	Acid Brown SGR 1:2 Brown 282	3	40	6	4-5	4	4-5	F
	Acid Brown MBR 1:2 Brown 355	3	50	7	4	4-5	4-5	M
	Acid Grey BL 1:2 Grey 58	4	70	6	5	4-5	5	G
	Acid Black N-BGL 1:2 Black 107	3-4	60	7-8	5	5	4-5	P
	Acid Black MRL 1:2 Black 194	3	70	5	4-5	4-5	4	—
	Acid Black BL 1:2 Black 164	3-4	30	6	5	4-5	4	M

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## DEO PIYU INDUSTRIES ON POLYAMIDE

### INTRODUCTION

#### ACID / ACID MILLING / METAL COMPLEX

Dyestuff on Polyamide

This shade card illustrates Acid dyes on Polyamide fabric.

#### CLASSIFICATION

Acid, Acid Milling & Acid Metal Complex dyes have been classified on the basis of fastness and application properties. For most applications, products from the same class will perform best in combination shades. For certain applications, products from different classes may be combined advantageously to obtain desired fastness, shade and application properties. It is however, necessary to ensure desired performance through pre-trial.

#### ACID DYES

These dyes have very good leveling properties. Coverage of barre is good. They are suitable for trichromatic combination shades. Acid range is especially recommended for carpet and sportswear coloration.

#### ACID MILLING

These milling acid dyes have good wet fastness. They are preferred for dark shades. They perform best as self shades or in limited combinations.

#### METAL COMPLEX ACID DYES (1:2 metal complex dyes)

These neutral dyeing metal complex dyes have very high all round fastness. They are applied from neutral to weakly acidic dye baths. Metal Complex range is recommended for automotive furnishing and carpet coloration.

#### METAL COMPLEX ACID DYES (1:1 metal complex dyes)

Metal Complex A dyes exhibit excellent all round fastness properties. These dyes exhaust from a strongly acidic bath.

#### PRETREATMENT OF POLYAMIDE GOODS

The polyamide grey fabric is thoroughly scoured at boil in a bath containing.

1-2 g/l Levocol CNID (Non-ionic soap)

1-2 g/l Soda ash

This is followed by a hot and cold rinse.

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Disclaimer : The information given in this shade card is indicative and its not a part of legal document.

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**COLOR**

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