

Illustration on wool / on polyamide

3,0%	4,0%
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Characteristics

C. I.	Acid Black 164
CAS No.	-
Chemical class	Metal complex azodye

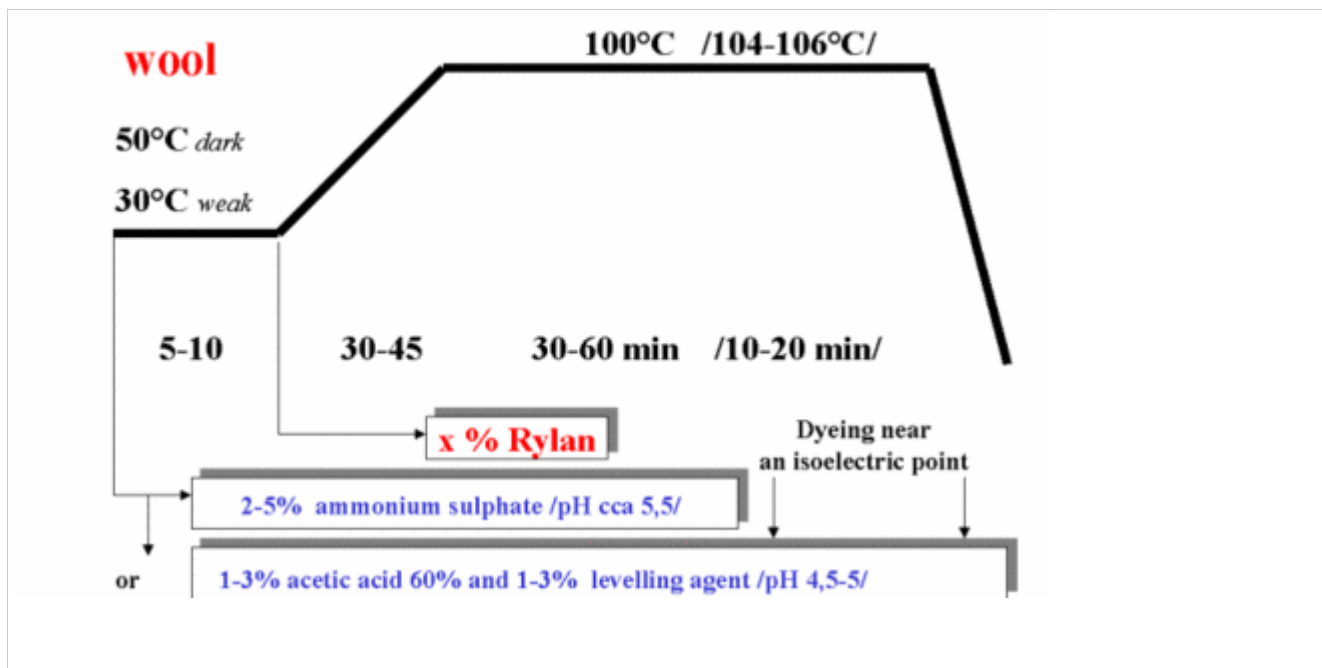
Properties

Solubility (g/l at 25°C)	50
Solubility (g/l at 90°C)	40

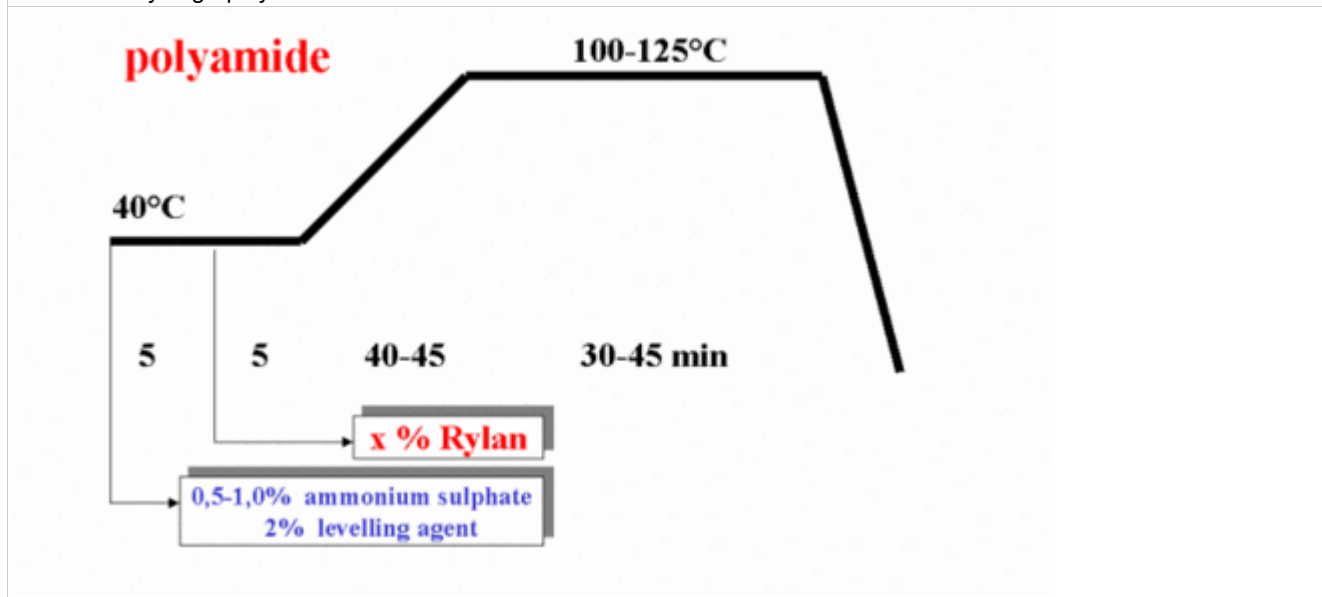
Fastness	wool						polyamide	
standard depth	1/25	1/12	1/6	1/3	1/1	2/1	1/1	2/1
Light Xenotest					7		7	7
	wool							
standard depth	1/1							
Water	4-5			4-5			4-5	
Crabbing								
Washing 40°C	4-5			5			5	
Washing 60°C	4-5			4-5			5	
Perspiration acid	4-5			4-5			4-5	
Perspiration alkaline	4-5			4-5			4-5	
Rubbing dry							4	
Hot pressing wet after 4 h	5						5	
Milling acid	4			3-4			4-5	
Milling alkaline	4			4			4-5	
Crossdyeing neutral	5			4-5			5	
Potting	4-5			1-2			4-5	
Decatizing	4							
Dry cleaning	4-5							
	polyamide							
standard depth	1/1							
Water	4-5			4-5			4-5	
Sea water	4			4-5			4-5	
Washing 40°C	4-5			4			5	
Washing 60°C	4-5			3			4-5	
Perspiration acid	4-5			4-5			4-5	
Perspiration alkaline	4-5			4-5			4-5	
Rubbing dry							5	
Hot pressing wet after 4 h	4			4-5			5	
Swimming bath water	3-4							
Dry cleaning	4-5							
Nitrogen oxides	4-5							
Dry heat 150°C	4D			4-5			4-5	

Application possibilities

Exhaustion dyeing - wool ●



Exhaustion dyeing - polyamide ●



● suitable ● partially suitable ○ unsuitable

Testing methods

Fastness	
Light Xenotest	ISO 105-B02-1994
Water	ISO 105-E01-1994
Washing 40°C	ISO 105-C01-1989
Washing 60°C	ISO 105-C03-1989
Sea water	ISO 105-E02-1994
Swimming bath water	ISO 105-E03-1994
Perspiration	ISO 105-E04-1994
Rubbing	ISO 105-X12-1987
Hot pressing	ISO 105-X11-1994
Milling acid	ISO 105-E14-1994
Milling alkaline	ISO 105-E12-1989
Potting	ISO 105-E09-1989
Crabbing	ISO 105-E08-1994
Crossdyeing neutral	ISO 105-X07-1994
Decatizing	ISO 105-E10-1994
Dry cleaning	ISO 105-D01-1993
Nitrogen oxides	ISO 105-G01-1993
Dry heat	ISO 105-P01-1993
The fastness figures in the tables mean:	
<i>fastness to light</i>	<i>other fastness properties</i>
1 - very poor	1 - poor
2 - poor	2 - moderate
3 - moderate	3 - fairly good
4 - fairly good	4 - good
5 - good	5 - very good
6 - very good	
7 - excellent	
8 - unsurpassed	
The letters indicate the following changes in shade:	
R - redder	D - duller
Bl - bluer	Br - brighter
Y - yellower	S - stronger
G - greener	W - weaker
The numbers at individual dye fastness data mean:	
First number	- change in shade
Second number	- staining on the undyed adjacent fabric which is of the same material as the tested sample
Third number	- staining on the undyed adjacent fabric