

## MACROLEX® Red H

<b>Colour Index</b>	Part I Part II	not listed not listed
<b>Chemical description</b>	Azo dyestuff	
<b>Form supplied</b>	powder, uncut	
<b>Shade</b>	red with a blue cast	
<b>1/3 Standard depth</b>	0.11% dyestuff	(determined in GP-PS with 2% TiO <sub>2</sub> )
<b>Density (23°C)</b>	approx. 1.20 g/cm <sup>3</sup>	
<b>Bulk density</b>	approx. 0.17 g/cm <sup>3</sup> (according to DIN ISO 787-11)	
<b>Melting point</b>	approx. 175°C	
<b>Main fields of application</b>	Transparent and opaque dyeing of PS, SAN, PMMA and PET.	
<b>Storage stability</b>	60 months from delivery ex plant LANXESS Deutschland GmbH	

### Solubility in g/l at temperature 23°C (approximate figures)

Water	Acetone	Benzyl alcohol	Butyl acetate	Ethanol	Methyl methacrylate	Methylene chloride	Styrene (monomer)	Xylene
insoluble	9.0	20	10	1.0	25	200	65	25

### Heat stability in °C at 1/3 standard depth with 1% TiO<sub>2</sub> (ABS 4% TiO<sub>2</sub> and PS 2% TiO<sub>2</sub>) evaluated according to DIN EN 12877; (approximate figures)

PS	SB*	ABS	SAN	PMMA	PC	PA 6	PA 6.6	PET	PBT
280	280	-	280	260	-	-	-	290	280

\* For Styrene-butadiene block copolymer the use of this dye is not recommended.  
- not recommended

### Lightfastness 1/3 standard depth with 1% TiO<sub>2</sub> (PS 2% TiO<sub>2</sub>) according to DIN EN ISO 4892-2; transparent coloration with 0.05 % dye; evaluated with 8-step blue wool scale

PC			PS			PMMA		
Dye content in %	reduction	transparent	Dye content in %	reduction	transparent	Dye content in %	reduction	transparent
-	-	-	0.110	5	7-8	0.055	6	7-8

- not recommended

### Materials used for testing of Heat stability and Lightfastness:

PS: BASF Polystyrene 143E	PA 6: LANXESS Durethan B30S
SB: BASF Polystyrene 472C	PA 6.6: LANXESS Durethan A30H 1.0
ABS: LANXESS Novodur P2X	PET: Voridian 9921 W
SAN: BASF Luran 368R	PBT: LANXESS Pocan B1505
PMMA: Röhm Plexiglas 7H	TiO <sub>2</sub> : Kerr McGee Tronox R-FK-3
PC: Bayer MaterialScience Makrolon 2800	

The test result were evaluated with the above mentioned conditions and materials. For other polymers, polymergrades, TiO<sub>2</sub> grades and dyes concentrations, the results can be different from the values above.

## MACROLEX<sup>®</sup> Red H

### Fastness to bleeding

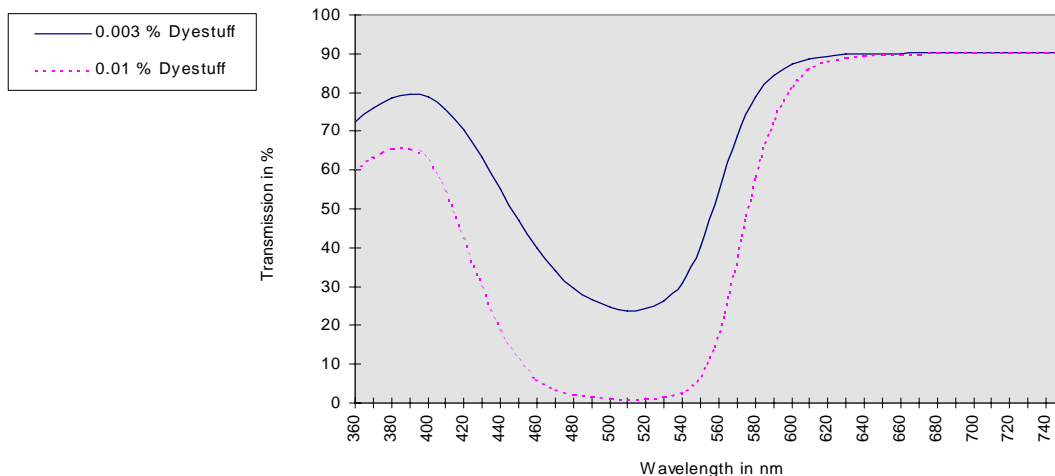
(Suitability for dyeing household utensils)

No staining of distilled water, 2% by weight acetic acid, 10% by volume ethanol, coconut oil or peanut oil in our test on 0.1% dyeing of PS, SAN, PMMA, PET and PVC-U. The tests were carried out in accordance with the recommendations of the German BfR [for plastic applications (saturated strips of filter paper, 5h at 50°C)].

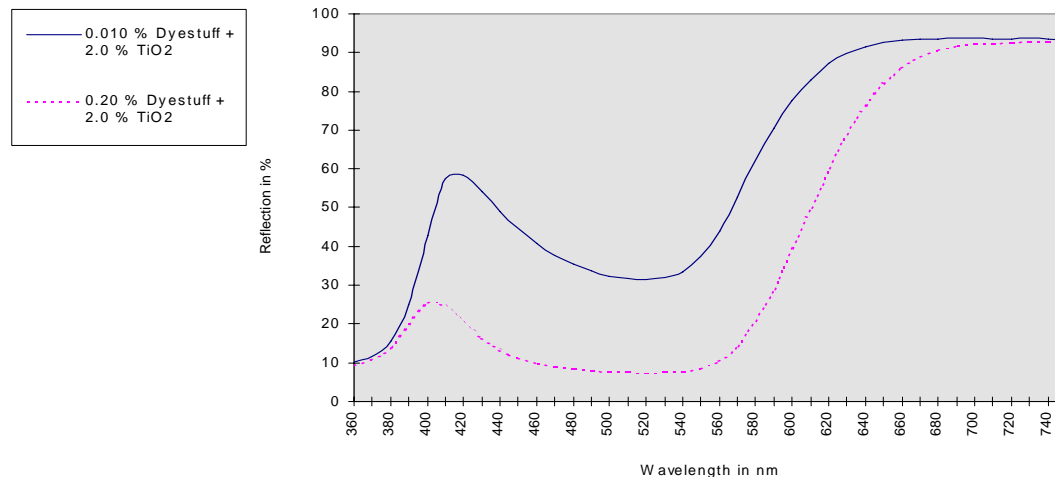
### Purity

This dyestuff meets current purity requirements for dyeing household utensils and toys in Europe.

### Transmission curve MACROLEX Red H in GP-PS ( 2mm thickness)



### Reflection curve MACROLEX Red H in GP-PS



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## COLORANTS

TECHNICAL INFORMATION

