

## MACROLEX® Black 2B

<b>Colour Index</b>	Part I Mixture Part II Mixture
<b>Chemical description</b>	Mixture
<b>Form supplied</b>	powder
<b>Shade</b>	black
<b>1/3 Standard depth</b>	0.18% dyestuff (determined in GP-PS with 2% TiO <sub>2</sub> )
<b>Density (23°C)</b>	approx. 1.35 g/cm <sup>3</sup>
<b>Bulk density</b>	approx. 0.4 g/cm <sup>3</sup> (according to DIN ISO 7897-11)
<b>Melting point</b>	approx. 180 °C
<b>Main fields of application</b>	Transparent and opaque dyeing of PS, SAN, PET, PBT, PMMA, PC and ABS / PC blends.
<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	1,5	4.0	3,0	0,1	5,5	30	12	8

### 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
300	-	-	280	300	340	-	-	300	300

\* For Styrene-butadiene block copolymer the use of this dye is 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
0.10	7-8	8	0.18	6	7-8	0,10	6	7

### 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.

**Fastness to bleeding**

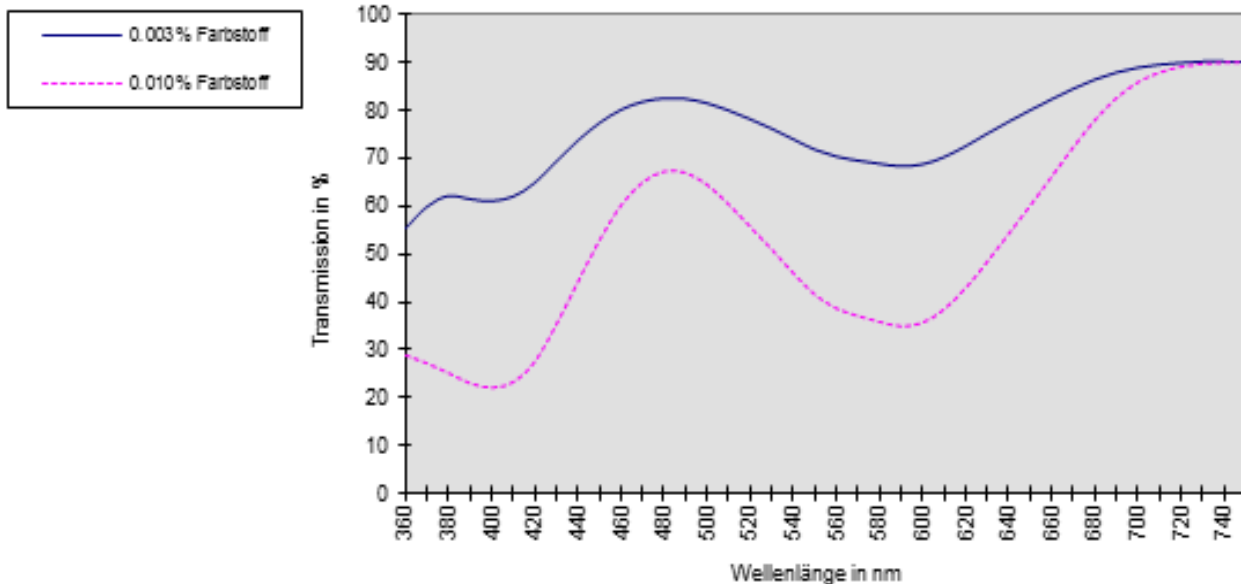
(Suitability for dyeing household utensils)

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, ABS, SAN, PMMA, PC, 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)].

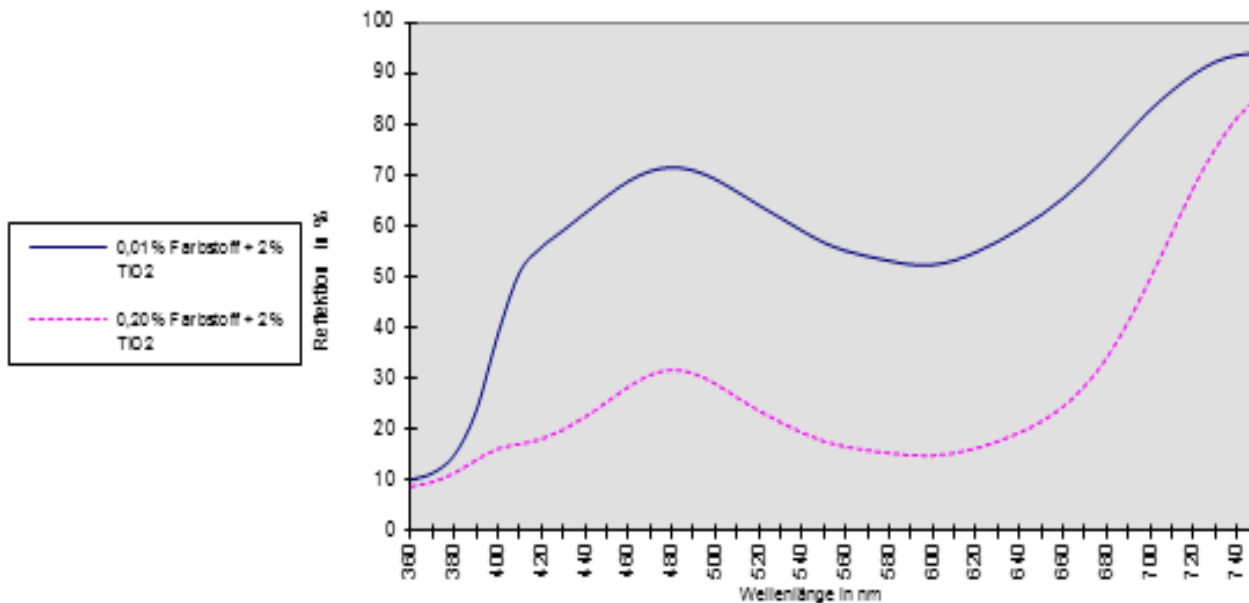
**Purity**

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

**Transmission curve MACROLEX Black 2B in GP-PS (2mm thickness)**



**Reflection curve MACROLEX Black 2B in GP-PS**



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