

MACROLEX[®] Fluorescent Red G

Colour Index	Part I Part II	not listed not listed
Chemical description	Coumarin dyestuff	
Form supplied	powder uncut	
Shade	fluorescent red with a yellow cast	
Density (23°C)	approx. 1.41 g/cm ³	
Bulk density	approx. 0.32 g/cm ³ (according to DIN ISO 787-11)	
Melting point	approx. 254°C	
Main fields of application	Transparent and opaque dyeing of PS, SAN, PMMA and PC.	
Storage stability	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 meth-acrylate	Methylene chloride	Styrene (monomer)	Xylene
insoluble	0.3	0.5	0.2	<0.1	0.4	8.0	1.0	0.4

Heat stability in °C at 1/3 standard depth with 1% TiO₂ (ABS 4% TiO₂ and PS 2% TiO₂) evaluated according to DIN EN 12877; (approximate figures)

PS	SB*	ABS	SAN	PMMA	PC	PA 6	PA 6.6	PET	PBT
300	260	240	260	300	350	-	-	290	280

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

Lightfastness 0.1% (PS 0.2%,) and 1% TiO₂ (PS 2% TiO₂ 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
0.100	5	7	0.200	4	7	0.100	3-4	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 ₂ :	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, TiO₂ grades and dyes concentrations, the results can be different from the values above.

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Fastness to bleeding

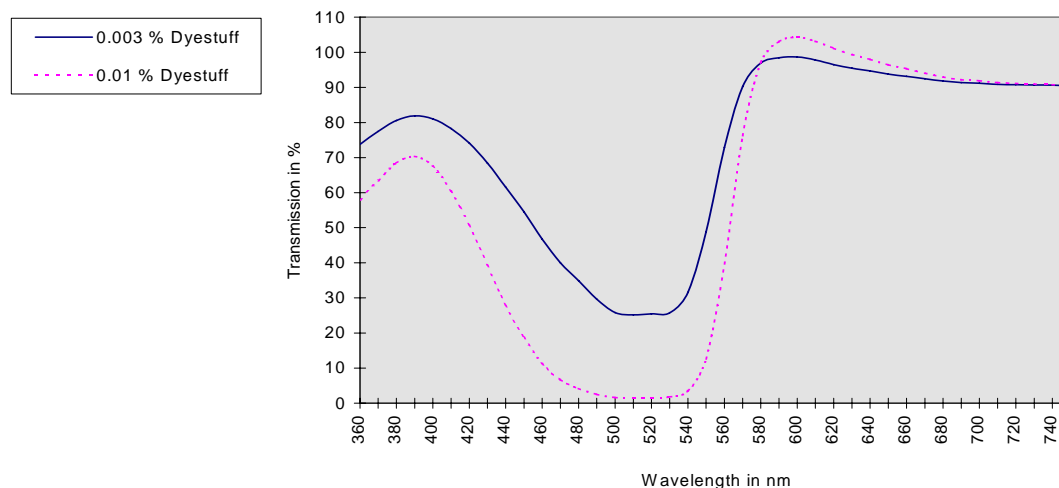
(Suitability for dyeing household utensils)

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)].

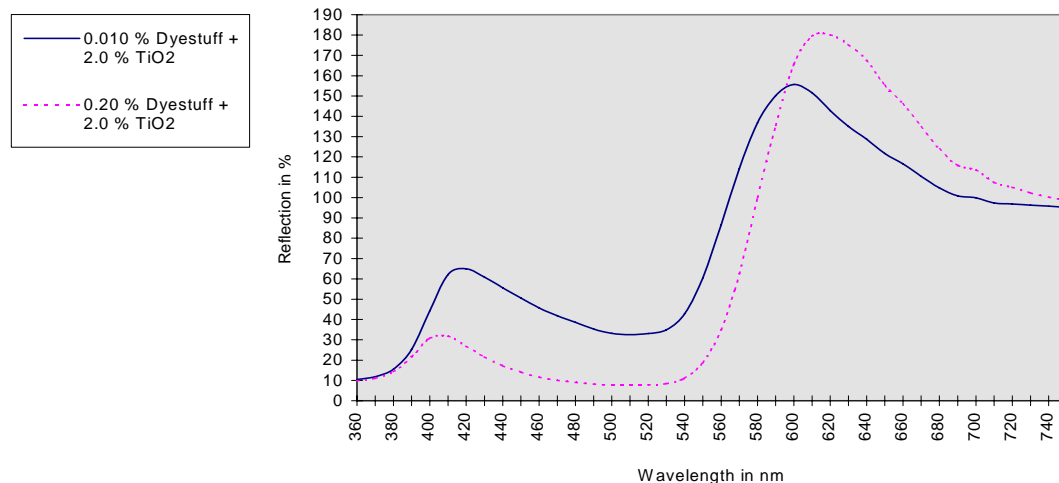
Purity

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

Transmission curve MACROLEX Fluorescent Red G in GP-PS (2mm thickness)



Reflection curve MACROLEX Fluorescent Red G in GP-PS



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