

MACROLEX® Green G Gran

Colour Index	Part I Part II	Solvent Green 28 625580
Chemical description	Anthraquinone dyestuff	
Form supplied	low dusting microgranulate	
Shade	green with a yellow cast	
1/3 Standard depth	0.30% dyestuff	(determined in GP-PS with 2% TiO ₂)
Density (23°C)	approx. 1.17 g/cm ³	
Bulk density	approx. 0.22 g/cm ³ (according to DIN ISO 787-11)	
Melting point	approx. 245°C	
Main fields of application	Transparent and opaque dyeing of PMMA, PC, PET, ABS and ABS / PC blends.	
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 methacrylate	Methylene chloride	Styrene (monomer)	Xylene
insoluble	2.0	4.0	4.5	<0.1	10	55	25	30

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	300	280	280	300	350	-	-	290	280

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

Lightfastness 1/3 standard depth with 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
0.150	7-8	8	0.300	7	8	0.150	7	8

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

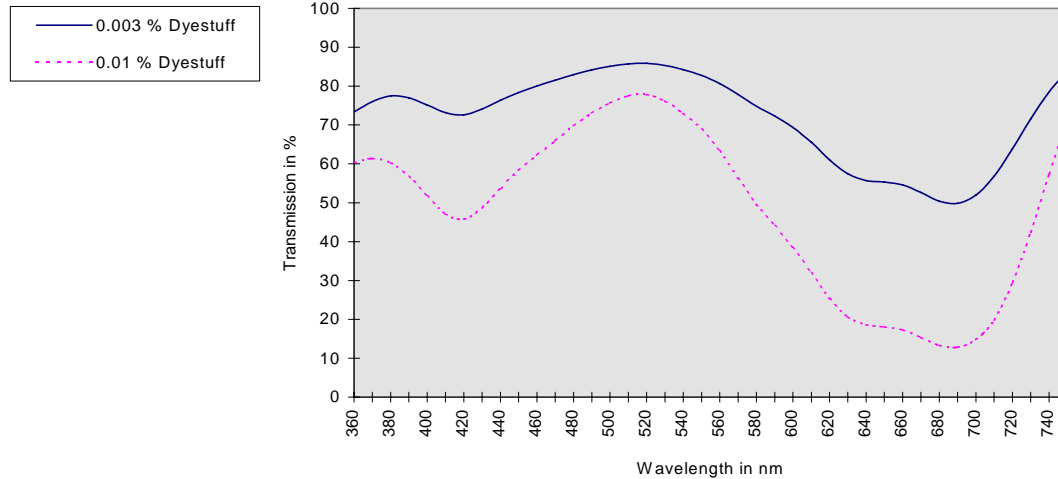
(Suitability for dyeing household utensils)

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)].

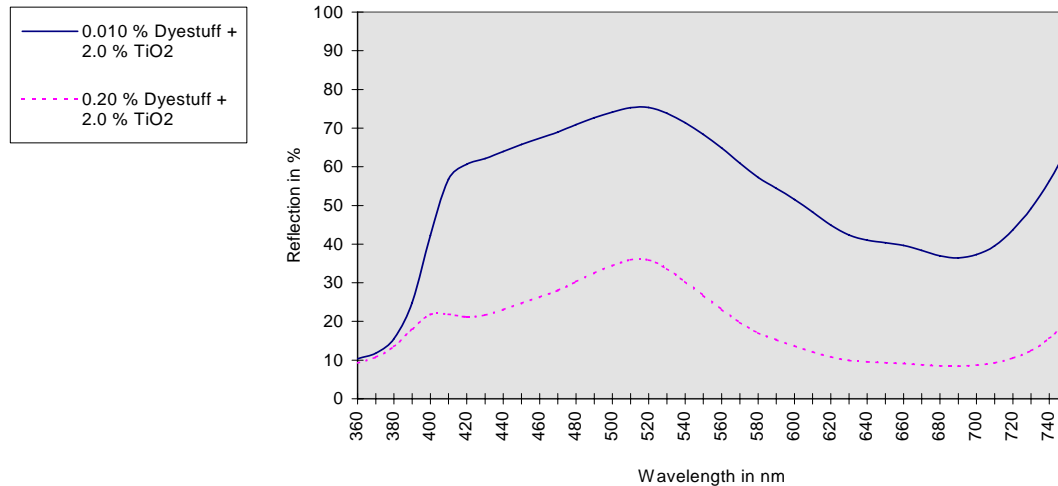
Purity

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

Transmission curve MACROLEX Green G Gran in GP-PS (2mm thickness)



Reflection curve MACROLEX Green G Gran in GP-PS



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Edition: May 2009
 Replace edition: February 2005

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TECHNICAL INFORMATION

