MACROLEX® Violet B FG

Colour Index Part I Solvent Violet 13
Part II 60725

Chemical description Anthraquinone dyestuff

Form supplied powder

Shade violet with a blue cast

1/3 Standard depth 0.18% dyestuff (determined in GP-PS with 2% TiO_2)

Density (23°C) approx. 1.35 g/cm^3

Bulk density approx. 0.39 g/cm^3 (according to DIN ISO 787-11)

Melting point approx. 189°C

Main fields of application Transparent and opaque dyeing of PS, SAN, 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	1.5	4.0	3.0	0.1	5.5	30	12	8.0

Heat stability in °C at 1/3 standard depth with 1% TiO_2 (ABS 4% TiO_2 and PS 2% TiO_2) 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.

Lightfastness 1/3 standard depth with 1% TiO_2 (PS 2% TiO_2) 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
0.090	6-7	7-8	0.180	5-6	7-8	0.090	6-7	7-8

Materials used for testing of Heat stability and Lightfastness:

PS: BASF Polystyrene 143E
SB: BASF Polystyrene 472C
PA 6: LANXESS Durethan B30S
PA 6.6: LANXESS Durethan A30H 1.0

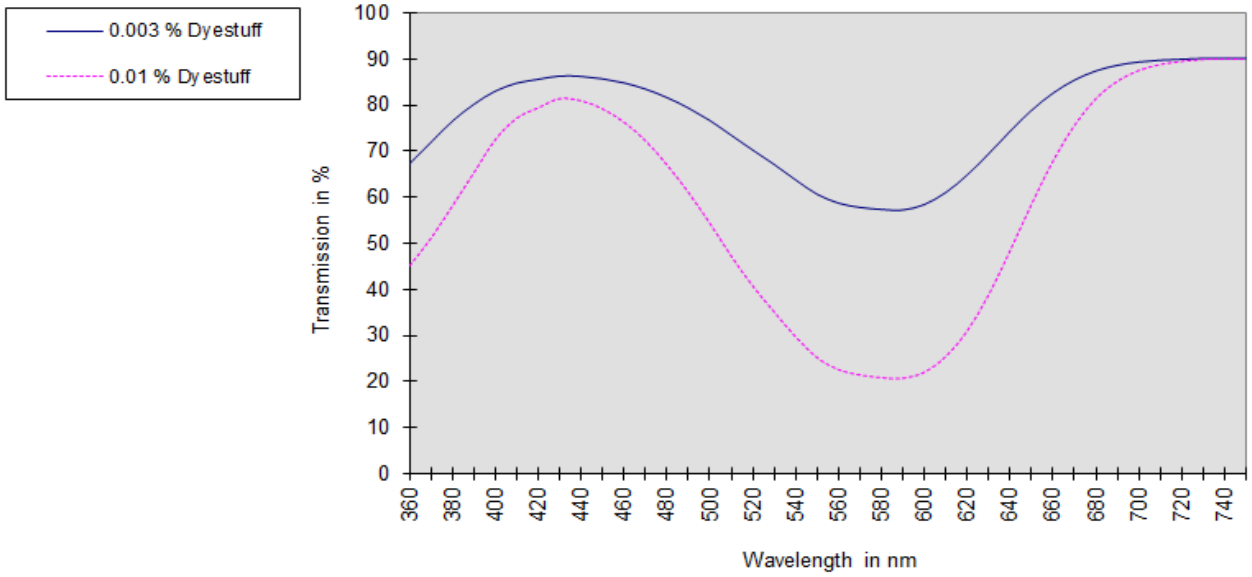
ABS:	LANXESS Novodur P2X	PET:	Voridian 9921 W
SAN:	BASF Luran 368R	PBT:	LANXESS Pocan B1505
PMMA:	Röhm Plexiglas 7H	TiO_2:	Kerr McGee Tronox R-FK-3
PC:	Bayer MaterialScience Makrolon 2800		

The test result were evaluated with the above mentioned conditions and materials. For other polymers, polymergrades, TiO_2 grades and dyes concentrations, the results can be different from the values above.

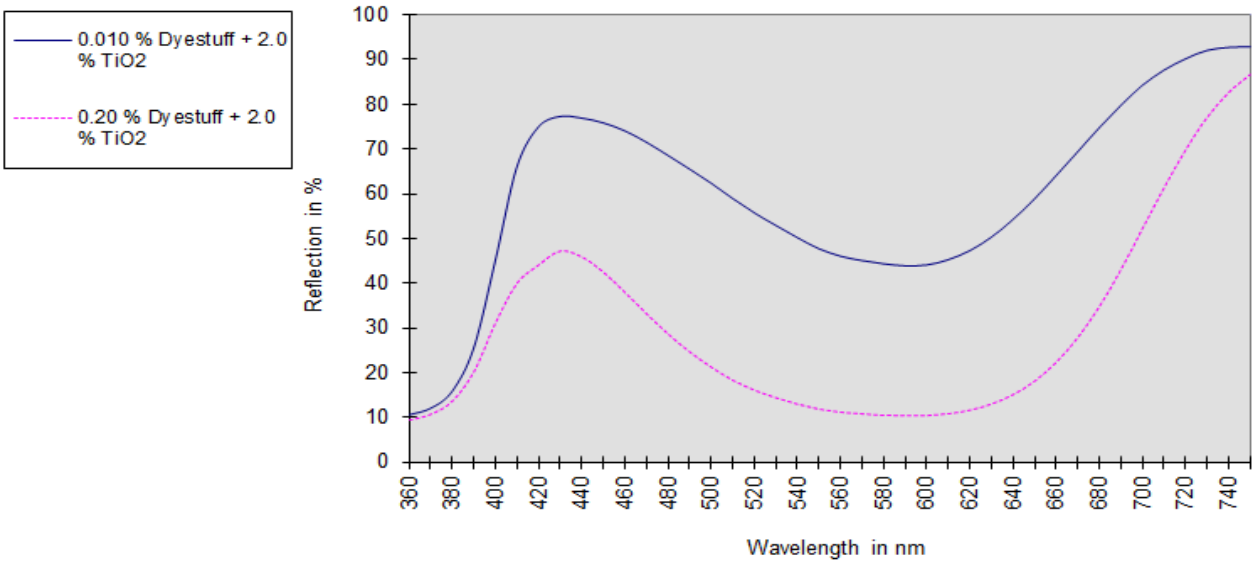
Fastness to bleeding (Suitability for dyeing household utensils)
No staining of distilled water, 2% by weight acetic acid, 10% by volume ethanol, coconut oil or peanut oil in our test on 0.1% dyeing of PS, ABS, SAN, PMMA, PC, PET and PVC-U. The tests were carried out in accordance with the recommendations 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 Violet B FG in GP-PS (2mm thickness)



Reflection curve MACROLEX Violet B FG in GP-PS



LANXESS Deutschland GmbH
Business Unit Rhein Chemie Additives
Kennedyplatz 1
50569 Cologne, Germany
http://rch.lanxess.com