

MACROLEX® Blue RR

Colour Index Part I Solvent Blue 97

Part II 615290

Chemical description Anthraquinone dyestuff

Form supplied powder

Shade blue with a red cast

1/3 Standard depth 0.23% dyestuff (determined in GP-PS with 2% TiO₂)

Density (23°C) approx. 1.18 g/cm³

Bulk density approx. 0.33 g/cm³ (according to DIN ISO 787-11)

Melting point approx. 200°C

Main fields of application Transparent and opaque dyeing of PS, SAN, PMMA, PC, 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 Ethanol acetate		Methyl methacrylate	Methylene chloride	Styrene (monomer)	Xylene	
insoluble	3.0	5.0	11	0.3	20	240	55	120	

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	340	300	280	290	280

^{*} For Styrene-butadiene block copolymer the use of this dye is 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	reduc-	trans-	Dye content	reduc-	trans-	Dye content	reduc-	trans-	
in %	tion	parent	in %	tion	parent	in %	tion	parent	
0.125	6	8	0.230	6	8	0.125	6	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

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SAN: BASF Luran 368R PBT: LANXESS Pocan B1505 PMMA: Röhm Plexiglas 7H TiO₂: 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.

Fastness to bleeding

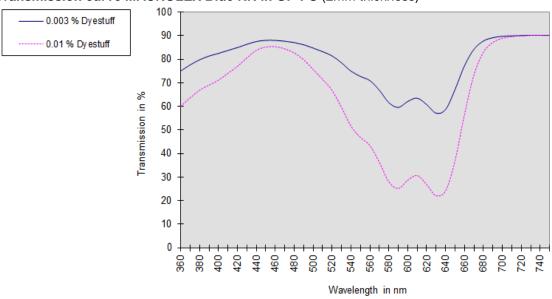
(Suitability for dyeing household utensils)

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 Blue RR in GP-PS (2mm thickness)



Reflection curve MACROLEX Blue RR in GP-PS

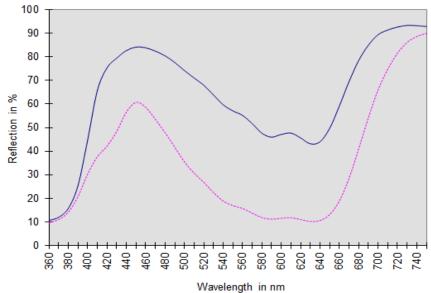
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