



The functional color company®

ARAPRINT-51 in short:

- * Completely soluble toners (some solvent based formulations, no solubility in waterborne formulations)
- * Highest available transparency
- * Easy to formulate more hiding power applications
- * Easy soluble
- * 0% VOC
- * Complete range of fluorescent to high strength saturated colors achievable by mixing only three basic colors
- * Phthalates free

ARAPRINT-51 SERIES

SOLVENT BASED & GRAVURE inks
FLEXOGRAPHIC & TIP PEN inks
INDUSTRIAL INKJET inks
SOLVENT BASED & FOILS printing
BRIGHTENING conventional inks
POWDER Coatings

Regulatory & Ecotox

- Free of volatile organic compounds (VOC)
- All non-polymeric components are registered in EINECS and TSCA (incl. polymers in TSCA).
- All non-polymeric components are registered respectively preregistered in REACH
- EN71 part 3 conformity (purity requirement). Still tests have to be carried on the final application.
- Heavy metals free (with exception of the natural values in the ppm range).
- For detailed information, please consult the individual MSDS.

Technology & Applications

ARALON® ARAPRINT-51 series is the result of our latest research and development activities in the field of fluorescent soluble toners. ARAPRINT-51 is based on own developed and on site manufactured Modified Urea-Toluenesulfonamide-Formaldehyde resin, which reveal high compatibility with most solvent born ink formulations.

ARAPRINT-51 toners are easy soluble in certain solvent formulations with very high transparency. While mostly high transparent inks is the target of the ink maker, more hiding inks can be formulated too by adding distinct additives.

The complete solubility of the ARAPRINT-51 toners in the final formulation is decisive and allow its optimal application in Gravure inks, Flexographic inks, foils printing and solvent based formulations. The high brightness and fluorescence of achieved inks might be used too to increase the brightness of conventional inks.

Solutions are particle-free, allowing in this the use of ARAPRINT-51 toners in critical fields like industrial inkjet inks and tip pens.

Due to the low melting point (ground) formulations can be used in powder coating applications.

ARAPRINT-51 solutions leave after evaporation of the solvent high adhesion films on the printed substrate, allowing in this the printing on AL- or polyester foils, and other polymeric substrates.

ARAPRINT-51 toners produce the most brilliant and fluorescent shades if printed on white substrates. Printing on other colored substrates, like silver shining polyester or aluminum foils result in interesting metallic shades.

Light Fastness & Heat Stability

Light Fastness

ARAPRINT-51 series can partially resist the multiple factors, generally known to influence light fastness, depending on the shade values up to 3 on the BWS can be achieved.

Heat Stability

Printed films with ARAPRINT-51 can withstand temperatures of above 150 °C for up to 5 minutes without affecting the perceived shades. Resistance to even higher temperatures is possible but for shorter exposure times.

Storage & Shelf life

ARAPRINT-51 series products are stable. Provided they are stored in dry places at ambient temperatures (below 40 °C) the predicted shelf life is 60 months. However depending on the quality of storage conditions, products might be used beyond this shelf life period.

Basic Formulations & Solubility

SOLVENT	SOLUBILITY of ARAPRINT-51 colors @ 40% concentration
Acetone	Soluble
MEK	Soluble
Diethylene glycol	Soluble
Nitropropane	Soluble
Etylacetate	Soluble
Diacetone alcohol	Soluble
Glycol ether EM	Soluble
Glycol ether DB	Soluble
Glycol ether EB	Soluble
75% Ethanol + 25% ethylacetate	Soluble
75% Ethanol + 25% propylacetate	Soluble
Ethylene glycol propyl ether	Soluble

ARAPRINT-51 toners need to be completely solved in the final application. The solved toners show high compatibility with most solvent based printing resins. Contact us for more detailed information.

Physical & Chemical properties

- Resin: Urea-Toluenesulfonamide-Formaldehyde
- Phthalates: 0%.
- Volatile organic compounds: 0%
- Mineral oils: 0%
- Particle size: completely soluble in the right solvent
- Grind: not homogenous granulates
- Spec. Gravity: 1.38
- Bulking value: 0,8 g/ml
- Melting range/point 90 - 130 °C

Any technical information is given on a purely informative basis. ARALON cannot give any warranty for a particular use.

Available colors

ARAPRINT-509 UV	BLUE	
ARAPRINT-510	YELLOW	
ARAPRINT-517	MAGENTA	
<p>The above shades are only indicative; computer screens and conventional printers cannot reproduce true fluorescent shades.</p>		

Packaging

<p>Package = Minimal order</p>
<p>1 carton box = 20 kg (LDBE bag includes the product inside the box)</p>

Mixing recommendations

ARAPRINT-509 UV BLUE [%]	ARAPRINT-510 YELLOW [%]	ARAPRINT-517 MAGENTA [%]	RESULTING SHADE
Within the same shade, mixtures start at highest fluorescence and end at highest color strength			
60	40	0	LEMON
30	70	0	Bright YELLOW
0	99,8	0,2	PANTONE 803
20	76	4	PANTONE 804
40	54	6	ORANGE RED
50	20	30	RED
0	40	60	STRONG RED
60	10	30	PANTONE 805
20	4	76	PANTONE 806
40	0	60	PANTONE 807
0	0	100	STRONG MAGENTA
90	0	0	Please add 10% of conventional BLUE ink
30	60	0	Please add 10% of conventional GREEN ink



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About ARALON:

Today, ARALON – The NEW supplier of daylight fluorescent and functional pigments. Development, manufacturing and marketing of pigments for the paints & coatings (ARACO products), plastics (ARAPLAST), aerosols (ARASOL), and printing inks (ARAPRINT) industries only commenced in 2013 at its greenfield construction in 56412 Heiligenroth, Germany, half-way between Cologne and Frankfurt. ARALON's strengths are apparent in three key areas:

- State-of-the-art encapsulation technology coupled with modern and efficient manufacturing assets and lean operations capable of delivering best-in-class fluorescent pigments at competitive cost.
- Unique fluorescent ARAPLAST-melting pigments permitting coloration of thin olefin based films in single and multilayer packaging.
- Next generation ARAGEN-chemistry enabling unprecedented light stability of formaldehyde-free fluorescent pigments without compromising other performance attributes.

ARALON wants to surprise with best-in-class products, innovations that matter and prices hard to ignore – TRY US!

ARALON, What is behind the name and the logo?

ARALON was created as a name for our company based on the ARA, which is kind of colorful parrot. The wonderful and bright colors of the parrot's feathers are the result of light refraction through nano-sized holes in the natural polymer structure of the parrot feathers. Depending on the hole size and the number of feather layers results in an unlimited number of bright and colorful shades of light, seen by our eyes as being the color of the feathers themselves.

This has, for our company, a relevance of many kinds. Initially the brightness and purity of the parrot's colors is similar, but often less when compared to the brightness and purity of our fluorescent colors. Further, the colors of the feathers were created in completely natural way, which is for our R&D development, an orientation for the future horizons of the company.

ARALON GmbH
Auf der Birke 9
56412 Heiligenroth,
Germany

Telephone:

+ 49 2602 99 770-0

Fax:

+ 49 2602 99 77069

E-mail:

info@araloncolor.com

Website:

www.araloncolor.com

