



The functional color company®

## ARACO-60 SERIES

### ARACO-60 in short:

- \* Fluorescent formaldehyde-free pigments
- \* Excellent balance between color strength and brightness / fluorescence
- \* Excellent low odor performance
- \* Decomposition T > 300 °C.
- \* Average particle size: 7-15 µm

**For Coloring paper coating**

**Target coating**

**Toys**

**Textile inks**

**Waterborne Latex formulation**

## Technology & Applications

ARALON® ARACO-60 are developed as an optimal choice for coloring papers, target coatings, textile inks and children toy articles.

As Stir-In Fluorescent pigments they keep their particle size and shape in the final application, extra milling is not required although such operation would not harm the pigment performance.

ARALON® ARACO-60 pigments should not be melted, while the decomposition temperature is higher than 300 °C, the typical melting range starts already at 90 °C, for this it is not recommended to go beyond 70 °C during the processing of ARACO-60 pigments.

In addition to infinitely low migration and efflorescence, ARALON® ARACO-60 Fluorescent Pigments have very low odor, which makes them the products of choice for toy articles.

Depending on the thickness of the final application, it is recommended to have 1-2 % of ARACO-60 pigments in the final application for a final thickness of 1,5 mm or in thicker applications, while the pigment load need to go up continuously by reduced final application thickness to reach 10% for example in 0,1 mm thin applications and even higher pigment load by thinner applications.

Avoid the introduction of additives, which contain metal ions (some stea- rates) as such components might lead to fluorescence quenching. For this, the content of metals and heavy metals is right important by changing the raw material source of any of the components used in final products colored with fluorescent melting pigments.

## Regulatory & Ecotox

- All non-polymeric components are registered in EINECS and TSCA (including polymers in TSCA).
- All non-polymeric components are registered respectively preregistered in REACH
- EN71 part 3 conformity (purity requirement). Still tests have to carried on final application.
- Heavy metals free (with exception of the natural values in the ppm range).

# Light Fastness & Heat Stability

## Light Fastness

ARACO-60 series can partially resist the multiple factors, generally known to influence light fastness and, depending on the shade, values up to 3 on the BWS can be achieved.

## Heat Stability

We do not recommend to heat the particles above 70 °C as those start to melt, although the carrier (modified polyester-amid resin) itself remains stable beyond 260 °C and have a decomposition temperature above 300 °C.

# Storage & Shelf life

ARACO-60 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.

# Migration & Efflorescence

ARACO-60 series products are developed for highest technical requirements regarding migration and efflorescence while high color strength and fluorescence reflection are maintained. The balance of all fluorescent pigment properties is as such unique and the result of our latest research and developments results.

All performance parameters depend highly on the individual process parameters. Individual recommendations are gladly given if assistance is required.

# Low Odor and Low Dusting performance

ARACO-60 pigments excel with extraordinary high performance regarding odor of the pigments and their applications. They are low dusting pigments too.

<b>Physical &amp; Chemical properties</b>
<ul style="list-style-type: none"> <li>• Resin / Carrier: Modified polyester-amid resin</li> <li>• Melting range: 90 - 150 °C</li> <li>• Melting temperature: 95 - 130 °C</li> <li>• Volatile organic compounds: 0%</li> <li>• Phthalates plasticisers: 0%</li> <li>• Particle size: 7-15 µm</li> <li>• Spec. Gravity: 1.2</li> <li>• Bulking value: 0.35 g/ml</li> </ul>

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

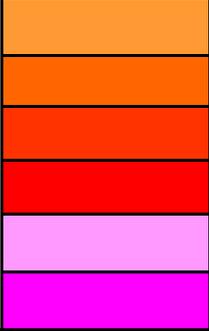
**Package = Minimal order**  
1 Carton BOX= 20 kg

Application	R = Recommended. NR = Not recommended. T = Need to be tested
Paper coating	R
Target coating	R
Toys (Play doh, Bubber, etc)	R
Textile inks	T
Solvent resistance demanding applications	NR

## Available colors

ARACO-60 Series		
ARACO-630	LEMON	
ARACO-610	STRONG LEMON	
ARACO-603	ORANGE	
ARACO-633	STRONG ORANGE	
ARACO-604	ORANGE-RED	
ARACO-615	STRONG RED	
ARACO-606	PINK	
ARACO-607	MAGENTA	
ARACO-617	STRONG MAGENTA	
<p>The above shades are only indicative; computer screens and conventional printers cannot reproduce true fluorescent shades.</p>		

## Mixing recommendations

<p>For obtaining intermediate shades, it is recommended to mix the colors neighboring each other in the “available colors table” to have the best fluorescent performing intermediate shades.</p>		
<p>For more hiding power and pastel shades use ZnS pigment dispersions instead of TiO<sub>2</sub> pigment dispersions to preserve optimal brightness, especially under UV light.</p>		
<p>2 - 5 % of the pigment part of conventional pigment preparation</p>	<p>Higher color strength without noticeable loss of brightness</p>	<p>Stronger shades</p>



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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.

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