



The functional color company®

# ARAGLO-101 UV GREEN

## Long-term Afterglow phosphorescent pigments

### ARAGLO® in short:

ARAGLO® phosphorescent pigments are rare earth-alkaline mineral crystals. They are manufactured to the highest standards, free of radioactive additives and can be recharged an infinite number of times. They phosphoresce up to 50 times as long as traditional zinc sulfide pigments. The light fastness of ARAGLO® phosphorescent pigments is also considerably higher compared with zinc sulfide pigments.

### Norms:

ARAGLO® phosphorescent pigments comply with UL1994 and ASTM E 2072.

### Incompatibility:

High temperature ceramics and glass molding.

### Caution:

Avoid grinding the pigment. During extrusion and injection molding, avoid high friction as due to the high pigment hardness, the screw might lose metal particles leading to dirty colors.

**For Coloring fibers**  
**Extrusion, blow and injection molding**  
**Paint formulations**  
**candles**  
**Screen printing**  
**Solvent and waterborne formulations**

## Technology & Applications

Body Color	White
Afterglow Color	Greenish Yellow
Grain Size	5 — 10 µm
Mesh size	500
Afterglow Intensity	Bright
Afterglow Duration	Long
Solvent & water resistance	Very good
Light fastness	8 (= highest on the BWS)
Emission Wavelength / powder (nm)	520
Luminance after 10 min (mcd/m <sup>2</sup> )	406,1
Luminance after 30 min (mcd/m <sup>2</sup> )	129,5
Luminance after 60 min (mcd/m <sup>2</sup> )	62,5
Luminance after 120 min (mcd/m <sup>2</sup> )	25,9
Afterglow Time till 0.32 mcd/m <sup>2</sup> (min) (100 times the limit of visibility)	8988
Mohs Hardness	8
Melting Point (°C)	1375



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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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