



The functional color company®

**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 sul-

# ARAGLO-90 SERIES

## Long-term Afterglow phosphorescent pigments

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

## Technology & Applications

	ARAGLO-900 YELLOW	ARAGLO-901 GREEN	ARAGLO-903 ORANGE	ARAGLO-906 PINK
Body Color	YELLOW	GREEN	ORANGE	PINK
Afterglow Color	YELLOW	GREEN	ORANGE	PINK
Grain Size / $\mu\text{m}$	15 — 45	15 — 45	15 — 45	15 — 45
Afterglow Intensity	Medium	Bright	Medium	Medium
Afterglow Duration	Medium	Medium	Medium	Medium
Solvent & water resistance	Very good	Very good	Very good	Very good
Light fastness (8 = highest on BWS)	8	8	8	8
Excitation Wavelength / powder (nm)	240—440	240—440	240—440	240—440
Luminance after 10 min ( $\text{mcd}/\text{m}^2$ )	ca. 500	ca. 500	ca. 500	ca. 500
Luminance after 30 min ( $\text{mcd}/\text{m}^2$ )	ca. 60	ca. 60	ca. 60	ca. 60
Luminance after 60 min ( $\text{mcd}/\text{m}^2$ )	ca. 30	ca. 30	ca. 30	ca. 30
Afterglow Time till 0.32 $\text{mcd}/\text{m}^2$ (min) (100 times the limit of visibility)	360	360	360	360
Mohs Hardness	8	8	8	8
Specific gravity	3,6	3,6	3,6	3,6
Melting point / $^{\circ}\text{C}$	1375	1375	1375	1375



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### **Norms:**

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

### **Regulatory:**

All ARAGLO-90 pigments are pre-registered in REACH and registered in TSCA.

### **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.

## **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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® = registered trademark

