

PHOTOLUMINESCENTS PIGMENTS LUMINANCE MEASUREMENTS

COLORS		Ref	Size	Performances	GMENTS OF DAYS) Luminance			Extinction
Day	Night	i.e.			1 minute	10 minutes	60 minutes	(0,3 mcd/m²)
-		YmO-10B	72µm-96µm	++	4310	707	128	8490min
		YmO-10C	48μm-72μm	++	4540	588	116	8011 min
		YmO-10D	36µm-48µm	+++	3590	555	105	6521 min
		YmO-10W	36µm-48µm	+++	3590	555	105	6521 min
-	GREEN	YmO-7	15μm-35μm	+++	1810	265	55	4966 min
		YmO-5E	5μm-15μm	++	NC	NC	NC	NC
		YmO-HE	1μm-5μm	++	NC	NC	NC	NC
		YmO-HDW	5μm-20μm	++	NC	NC	NC	NC
		YmB-7C	48μm-72μm	+++	2400	380	90	-
-		YmB-7D	36µm-48µm	+++	2050	340	75	-
	BLUE-GREEN	YmB-W	36µm-48µm	++	2050	340	75	
		YmB-7E	25µm-35µm	++	1610	259	30	-
		YmB-7HDW	5μm-20μm	++	NC	NC	NC	
-	BLUE	YmS	25μm-35μm	-	850	210	18	
		YmS-W	36µm-48µm	-	1400	310	28	-
		YmS-HDW	5μm-20μm	-	NC	NC	NC	
-	PURPLE	YmV-7E	25μm-35μm		350	90	16	NC
		YmV-7W	36µm-48µm		488	122	22	NC
-	WHITE	YmO-1W	20μm-40μm	-	790	140	14	NC
-	YELLOW	YmOY	20μm-40μm		510	125	5	NC
-	ORANGE	YmRO	20μm-40μm		490	120	5	NC
-	RED	YmR	20μm-40μm		420	76	3	NC

S RANGE – HIGH PERFORMANCES									
cc	LORS	Ref	Size	Performances		Extinction			
Day	Night				2 minutes	10 minutes	60 minutes	(0,3 mcd/m²)	
_	GREEN	LBG-2030S	30μm	+++	2408	595	73	5841 min	
-		LBG-3040S	35μm	+++	2881	722	91	7211 min	

NEON RANGE (COLORED PIGMENTS OF DAY)									
COLORS		Ref	Size	Performances	S Luminance			Extinction	
Day	Night				1 minute	10 minutes	60 minutes	(0,3 mcd/m²)	
GREEN	GREEN	NPP-VV	5μm-35μm	++	1600	240	40	4500	
YELLOW	GREEN	NPP-YG	5μm-35μm	++	1600	240	40	4500	
ORANGE	YELLOW	NPP-OY	5μm-35μm	++	1600	240	40	NC	
BLUE	BLUE-GREEN	NPP-BB	5μm-35μm	+	1400	215	30	NC	
BLUE	GREEN	NPP-BG	5μm-35μm	++	1600	1240	40	4500	
PINK	ORANGE	NPP-RO	5μm-35μm	++	1400	215	30	4500	
PINK	PURPLE	NPP-RV	5μm-35μm	-	340	85	14	NC	
PINK	PINK	NPP-RR	5μm-35μm	+	1300	190	30	NC	

Discover all pigments, packings and prices from 15g to 25kg: Click here

Measures after sample lighting with Fluo lamp 1000lux / 10min The above technical data have been obtained by tests in accordance with DIN67510 Part I, measures expressed in microcandellas / m^2 . Extinction refers to the time in minutes required for the luminance ratio is reduced to 0.32 mcd / m^2 from the moment when the excitation is stopped by the light.

Phosphorescent pigments



Extra long glow phosphorescent pigments

PRESENTATION:

The phosphorescent pigments have the capacity to store the light and to re-emit it:

They charge when exposed under a light source (sunlight, electric light, or UV) and release gradually the energy by glowing in the dark.

Our pigments are from the latest generation and represent the most efficient grade of photoluminescent materials in term of restitution rate.

Definition: The name phosphorescent covers in general all types of pigments that emit light thanks to a luminous excitement. We will then talk about phosphorescent pigments to be more precise.



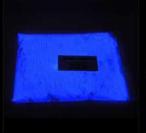
Vert High luminance Solvent or Waterbased All particle sizes





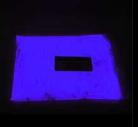
Turquoise (Blue-Green) Good luminance Solvent or waterbased





Low Luminance Solvent or Waterbased





Violet Low Luminance Solvent or waterbased





Low Luminance Solvent only





Orange Low Luminance Solvent only





Short Luminance Solvent only



Colours Green Blue Green Blue

Violet White Red

Luminance en mcd/m² après 1MIN 10MIN 60MIN

Lum 9000 2300 358 58 1400 280 44 5400 520 69 12 1000 480 2

Measurments: Tests according DIN67510 Part I. Luminance (Lum) = Time for total extinction (0,32mcd/m²)

Phosphorescents Pigments: Technical Date File

LUMINANCE:

The pigments glow over a variable period of time and in a quick decay curve, that will stabilizes itself during long hours. The luminance is measured in microcandela/sqm.

The luminance can totally extinguish days after an excitement to light.

The intensity of the glow will depend of the size of the pigment particle and of its colour: Green particles are larger and will glow longer.



The pigment powders are colourless during the day: From a greenish white (for the green and blue-green colours) to a perfect white (for all others colours). A "coloured by day" version is also available.

COMPOSITION:

The photoluminescent pigments Arco Iris with their particular structure of crystal are made from "rare earth elements" (Aluminates and Europium Carbonates/Strontium desactivated). Their luminescence is 10 times higher than those of conventional phosphorus/zinc sulfide based pigments







SAFETY:

The product is non-toxic, harmless and non-radioactive. Product not considered to be hazardous (As for our analysis certificates)

They are completely harmless and are completely safe in consumers products such as clothes, shoes, helmets, toys, watches, switches, fishing tools, sporting goods...

RESISTANCE:

Our phosphorescent pigments have a life span of 10 to 20 years. They have a great physical and chemical stability (temperature >1300°C, resists well to UV light). Direct contact with metals and water can accelerate quickly their degradation.

APPLICATION:

Photoluminescent pigments are widely used in industries in manufacturing paints, injection and moulding, silkscreen painting, luminous panels, tapes or films, ceramic tiles etc.

Different technical and artistic purposes can be achieved due to their characteristics.

Their lifetime, their ease of use and their infallibilty are highly valued for the production of safety products.

TYPE OF PIGMENTS and COMPOUNDS (Masterbatch)

We deal with the biggest choice of pigments, available in several models according to their colours, the size of the particles and their type (solvent or water based) We also produce a range of pigments coloured by day (please contact us by email only) and various types of Plastic compounds.

TECHNICAL SPECIFICATIONS:

Glow colour: Green, Bleu-Green, Blue, Violet, Red, Orange, White

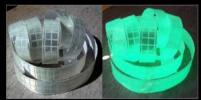
Glow decay: Up to 12h after excitation

Density: 3.5+/-O. 1 g/cm3 - Humidity: 0.5 %

Available particle size:

5-15µm; 15-35µm, 35-45µm, 45-65µm, 60-100µm, 100-250µm, >500µm













Phosphorescent pigments

The NEON Range is made with phosphorescent pigments which are special because they display a colourful appearance both during the day and at night.

This is indeed a particular property, as all natural phosphorescent pigments are a white or

This is indeed a particular property, as all natural phosphorescent pigments are a white or yellowish powder (under light).

The colour pigments by day have a lower luminous intensity (about 25%) in comparison to the colourless phosphorescent natural pigments by day





Ref Colour during the day/night

NPP-VV: Green/Green NPP-YG: Yellow/Green NPP-OY: Orange/Orange NPP-BB: Blue/Turquoise

NPP-BG: Blue/Green NPP-RO: Pink/Orange NPP-RV: Pink/Purple

NPP-RR: Pink/Pink

Available packagings: 15g, 330g, 1kg or 25kg Ise:

by mixing only, in all transparent media such as resins, binders, topcoats, plastics

Resistance:

The phosphorescent property has excellent temperature resistance (up to 800 °C) and provides durability for at least many decades (if the pigment is stored in

its packaging, or immersed in its resin). The colour "by day" cannot withstand more than 200 to 250 °C.

and cannot be exposed to sunlight

Composition: Strontium aluminate and dyes