



PHOTOLUMINESCENTS PIGMENTS

LUMINANCE MEASUREMENTS

STANDARD RANGE (COLORLESS PIGMENTS OF DAYS)

COLORS		Ref	Size	Performances	Luminance			Extinction (0,3 mcd/m ²)
Day	Night				1 minute	10 minutes	60 minutes	
-	GREEN	PPS-G7296	72µm-96µm	++	4310	707	128	8490min
		PPS-G4872	48µm-72µm	++	4540	588	116	8011 min
		PPS-G3648	36µm-48µm	+++	3590	555	105	6521 min
		PPH-G3648	36µm-48µm	+++	3590	555	105	6521 min
		PPS-G1535	15µm-35µm	+++	1810	265	55	4966 min
		PPS-G515	5µm-15µm	++	NC	NC	NC	NC
		PPS-G15	1µm-5µm	++	NC	NC	NC	NC
		PPH-G520	5µm-20µm	++	NC	NC	NC	NC
-	BLUE-GREEN	PPS-A4872	48µm-72µm	+++	2400	380	90	-
		PPS-A3648	36µm-48µm	+++	2050	340	75	-
		PPH-A3648	36µm-48µm	++	2050	340	75	-
		PPS-A2535	25µm-35µm	++	1610	259	30	-
		PPH-A520	5µm-20µm	++	NC	NC	NC	-
-	BLUE	PPS-B2535	25µm-35µm	-	850	210	18	-
		PPH-B3648	36µm-48µm	-	1400	310	28	-
		PPH-B520	5µm-20µm	-	NC	NC	NC	-
-	PURPLE	PPS-P2535	25µm-35µm	---	350	90	16	NC
		PPH-P1030	10µm-30µm	-	488	122	22	NC
-	WHITE	PPS-W2040	20µm-40µm	-	790	140	14	NC
-	YELLOW	PPS-Y1535	15µm-35µm	--	510	125	5	NC
-	ORANGE	PPS-O1535	15µm-35µm	--	490	120	5	NC
-	RED	PPS-R1535	15µm-35µm	--	420	76	3	NC

S RANGE – HIGH PERFORMANCES

COLORS		Ref	Size	Performances	Luminance			Extinction (0,3 mcd/m ²)
Day	Night				2 minutes	10 minutes	60 minutes	
-	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	Luminance			Extinction (0,3 mcd/m ²)
Day	Night				1 minute	10 minutes	60 minutes	
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 / m². Extinction refers to the time in minutes required for the luminance ratio is reduced to 0.32 mcd / m² from the moment when the excitation is stopped by the light.



PHOTOLUMINESCENTS PIGMENTS

LUMINANCE MEASUREMENTS

STANDARD RANGE (COLORLESS PIGMENTS OF DAYS)

COLORS		Ref	Size	Performances	Luminance			Extinction (0,3 mcd/m ²)
Day	Night				1 minute	10 minutes	60 minutes	
-	GREEN	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
		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
	BLUE-GREEN	YmB-7C	48µm-72µm	+++	2400	380	90	-
		YmB-7D	36µm-48µm	+++	2050	340	75	-
		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

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Phosphorescent Pigments: Technical Data File

LUMINANCE:

The pigments glow over a variable period of time and in a quick decay curve, that will stabilize 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.



ASPECT:

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 infallibility 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+/-0.1 g/cm3 - Humidity: 0.5 %

Available particle size:

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



ARCO IRIS

NEON

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 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

Use:

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