Europark 1046, B-3530 Houthalen
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Technical Data Sheet

RPC-V

General Description

- Daylight and ultra-violet responsive fluorescent plastic colorants - free of formaldehyde - for plastics.
- A dyed/pigmented thermoplastic polyamide-ester copolymer.
- RPC-V series has been reformulated to enable increased compliance of the end product to food contact regulations.

Applications

- Recommended for extrusion, injection molding, blow molding, film blowing etc.
- Particularly recommended for Polyolefins (LDPE/HDPE/PP)

Standard Colors	
Product Name	Description
RPC-20V	Chartreuse
RPC-23V	Orange
RPC-24V	Orange Red
RPC-25V	Red
RPC-27V	Pink
RPC-28V	Magenta

Packaging:
1 box = 20kg
MOQ = 20kg

Storage & shelf life:
120 months when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:
Safety Data Sheet available on request.

Product Features

- All monomers are included in the EU list of authorized substances of regulation (EU) No 10/2011.
- Developed to meet the composition requirements of resolution AP89(1) (Use of Colourants in Plastic Materials coming into Contact with Food). For further details please consult our AP89(1) declaration.
- It is necessary that the manufacturer of end product conducts adequate testing on final product to determine if it's food contact compliant. We are able to provide information to a third party under NDA. All batches of RPC-V series are produced under special controlled validated conditions and highlighted with a V suffix.
- RPC series exhibits negligible, if any, mold plate-out and excellent heat stability.
- To ensure complete development of the fluorescent color effect, it must be completely melted and evenly distributed throughout the plastic system.

Physical properties	
Delivery form	Powder
Particle size (Laser diffraction)	8 – 16 µm (<20 µm)
Melting point	125 – 150 °C
Decomposition temp.	>320°C
Specific gravity	1.20 g/ml
Bulking value	0.30 – 0.40 g/ml

(1)Test methods and Certificate of Analysis (COA) available on request.

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Processing	
Heat stability	170 – 280 °C It is essential the minimum processing temperature of 170°C is reached in order to melt in the polymer and evenly distribute the pigment throughout the plastic. To minimize the influence of heat on the fluorescent properties, temperature impact needs to be hold as low as possible.
Plastics	Recommended for polyolefins (LDPE/HDPE/PP) and rubber. Other polymers should be tested.

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