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Technical Data Sheet

RPC

General Description

- Daylight and ultra-violet responsive fluorescent plastic colorants - free of formaldehyde - for plastics.
- A dyed/pigmented thermoplastic polyamide-ester copolymer.

Applications

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

Product Features

- RPC series exhibits negligible, if any, mold plate-out and excellent heat stability.
- Compared to all other commercially available fluorescent plastic colorants, RPC series offer outstanding heat stability in injection molded plastics. The maximum recommended processing temperature is 280°C.
- To ensure complete development of the fluorescent color effect, RPC series must be completely melted and evenly distributed throughout the plastic system.

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

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.

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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