

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.

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.		

- 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.

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
Specific gravity Bulking value	1.20 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.

Disclaimer: Our technical advice, information, statements, whether given verbally, in writing, or in the form of test results, is offered for your guidance without warranty. No warranty for fitness for a particular purpose is made. This also applies where protective rights of third parties are involved. It does not release the user from obligation to test the suitability of the products and formulas for the intended process and applications. Our guarantee is limited to the consistent quality of our product. Rev:1.0 6-May-22