

# Radglo<sup>®</sup> RPCF

## General information

### General description:

- Daylight and ultra-violet fluorescent plastic colorants for food contact applications with EU **and** FDA compliancy.
- A dyed/pigmented thermoplastic polyamide-ester resin.

### Applications:

- Plastics for single and repeated use applications in contact with all food types.

### Standard colors:

Product name	Description
RPCF-10	Chartreuse
RPCF-14	Orange Red
RPCF-18	Magenta

### Product features and benefits

- Please consult the Keller and Heckman opinion letters concluding that RPCF-series are complaint to the mentioned directives (10/2011/EC and FDA) as amended till date of this opinion letter. The Keller and Heckman opinion letters <sup>(A)</sup> define the approved conditions of use of RPCF in food contact materials.
- In compliance with European plastics regulation (No 10/2011/EC) and European safety requirements: *up to 1%* in LDPE, HDPE, PP for single and repeated use applications in contact with all food types at room temperature or lower.<sup>(B)</sup>
- In compliance with Food and Drug Administration status (FDA): up to 1% in HDPE, PP for single and repeated use applications in contact with all foods under conditions of use E-G defined in 21 CFR 176.170(c): room temperature filled and stored, refrigerated storage and frozen storage (no thermal treatment in the container).<sup>(B)</sup>
- RPCF colors can be blended to achieve intermediate fluorescent colors.

### Packaging:

1 box = 20kg (1x20kg)  
MOQ = 20kg

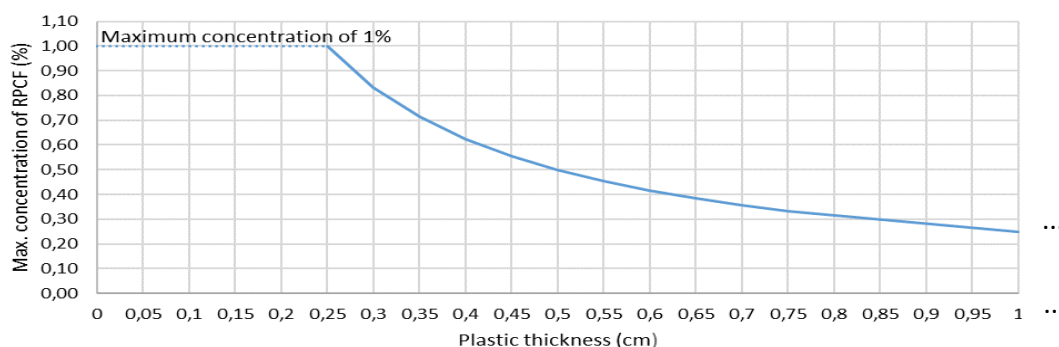
<sup>(A)</sup> Opinion letters from Keller and Heckman is currently being updated.

<sup>(B)</sup> For approved conditions of use, request the Opinion letter from Keller and Heckman.

## Plastic thickness & concentration limitations of RPCF

The updating of the European Food Safety Authority (EFSA)'s 'Note for guidance for petitioners' in May 2017 alters Keller and Heckman prior findings of the opinion letter with respect to the EU status of the Radglo RPCF masterbatches, such that Keller and Heckman considers the following restrictions now apply:

- For plastic end application with a thicknesses of up to 0.25 cm, up to 1% of RPCF can be used in the final article.
- If the thickness of the final article exceeds 0.25 cm, the concentration of RPCF may be calculated using the following formula:  $\frac{1\% \times 0.25 \text{ cm}}{\text{Thickness in cm}}$



**Technical information<sup>(1)</sup>****Physical properties**

Delivery form	Powder
Particle size	D50= 8 – 12 µm / < 15 µm
Melting point	125 – 150°C
Specific gravity	1.2 g/ml
Bulking value	0.30 – 0.40 g/ml

**Storage & shelf life:**

36 months when kept in closed original packaging in a dry place at ambient temperature.

**Processing**

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.

**Safety & regulatory:**

Safety Data Sheet and Regulatory Status (RS) available on request.

<sup>(1)</sup>Test methods and Certificate of Analysis (COA) available on request.

Do you need more technical & commercial information? Please consult **Product Promotion Sheet**.