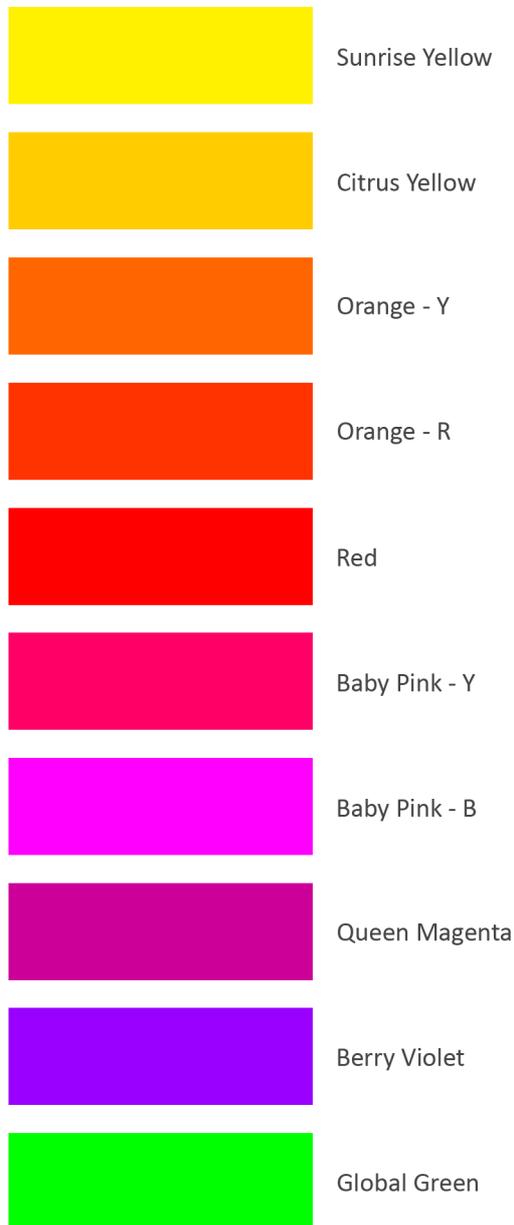


## Color Range



Disclaimer : This is a guidance shade card only. Test before use. No warranty for damages of any form at your end including third party protective rights. We assure consistent quality of our products only. Subject to Pune (India) Jurisdiction only.

## FFLM - SERIES

### Bright Colours for Plastics :

Radiance-FFLM series is a formaldehyde free Thermoplastic polyester series especially developed for coloring plastics Like LDPE, HDPE, Polypropylene, Polystyrene, Acrylics etc. FFLM series is especially recommended for master batches, blow moulding, extrusion, injection moulding etc.

### Product description :

#### Nature :

FFLM - series is transparent in nature; however from 0.1% to 0.5% TiO<sub>2</sub> can be added to increase opacity, extra addition of Non-fluorescent pigments reduces fluorescence effect. Minimum processing aids are required for the use of these pigments. Additives like zinc and calcium can cause colour shifts and loss of brightness. Suitable tests should be conducted before use.

#### Blending :

Metal free wetting agents like mineral oil or Butoxy ethyl stearate is recommended of about 0.1% of the weight of plastic to be coloured. They improve colour strength.

#### Physical Properties and Light Fastness :

Softening-Melting	95°c - 115°c
Processing Temp.	Minimum 150°c
Thermal stability	upto 280°c
Decomposition	290°c onwards
Particle Size	10-15 mm
Light Fastness	Light Fastness depends on - Type of plastic - Intensity and angle of the incident sunlight. The light fastness may be improved by including UV- absorber(s) in the formulation.

#### Processing Temperature :

Minimum 150°c temperature is recommended for processing. Thermal stability of FFLM-series is up to 280°c. But the effect related to the use on fluorescent pigments also depends upon the processing period i.e. time at which the pigment is being treated. But the effect of heat on fluorescent pigment is relative to time/temperature in processing conditions. Fluorescent pigments are sensitive to heat.

#### Light Fastness :

Fluorescent pigments have good indoor light fastness therefore they are used for toys house wares, office articles etc.

UV absorbers such as benzotriazoles or benzo-phenones are used to increase light fastness. Plasticizers, stabilizers and other additives influence light fastness and colour shade.

#### Storage :

We advice our users to avoid storing all kind of fluorescent pigments in direct sunlight. FFLM series remains stable when stored in a dry place below 50°c.

#### Avoid metal ions (stearates) in combination with fluorescent pigments :

Compared to all other commercially available fluorescent pigments for plastics, FFLM series offers the advantage of a low level of sticking and plating, whereby both thermal stability and light resistance are optimized.

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