

# Technical Data Sheet

## HTTP Series

A formaldehyde-free, strength, economical polyester based fluorescent colorants recommended for master batch manufacture and other general-purpose plastic applications.

### Customer Benefits - made possible by MANGALAM HTTP Series

Easy to handle and use: Improved moisture resistance to prevent agglomeration.

Clearer, brighter and stronger shades: New proprietary polyester based chemistry to deliver bright & beautiful colors.

Faster processing and clean up: Excellent dispersion and substantially reduced plate out to ensure ease of processing and color change over.

Better Thermal stability: Wide processing range from 120°C to 250°C with minimal color change, including DIN EN 12877-2 standard compliance up to 240°C.

Enhanced color consistency and surface finish quality of articles: New proprietary chemistry to deliver best end product results.

### Applications - Processes

Suitable	Limited Suitability
Master batch	Blow Mouldings
Mouldings & Extrusions	Liquid Colorants

### Applications - Polymers

Suitable	Limited Suitability
LLDPE	HIPS
LDPE	
HDPE	
PP	

### Available Colors

Color	Product Code
Yellow	HTTP - 2101
Green	HTTP - 2102
Chrome	HTTP - 2103
Orange (R)	HTTP - 2104
Orange (Y)	HTTP - 2105
Neon Red	HTTP - 2106
Pink	HTTP - 2107
Magenta	HTTP - 2108
Violet	HTTP - 2109
Royal Blue	HTTP - 210(10)

## Typical Pigment Characteristics

Average Particle size	Fine powder
Melting Point	90°C -110°C
Decomposition point	290°C
Min. Processing Temp	120°C
Max. recommended Processing temperature (For short dwell times)	250°C
Chemical Nature	Formaldehyde free thermoplastic polyester resin

### Shelf Life & Storage Conditions:

- Store at dry and closed conditions
- Keep away from source of ignition/Sunlight
- Avoid moisture and raising dust.

**Safety:** Please Refer MSDS.

*\*\* Maximum temp. At which fluorescence is maintained  
Color degradation is time / temperature dependent*

HTTP Pigments are a solid solution of thermoplastic polyester resin with fluorescent DYES. Minimum processing temperature to ensure complete colour development is 120°C

## Other Information

HTTP fluorescent series are much brighter than conventional non-fluorescent colors.

Opacity can be improved, if necessary, by small additions of rutile titanium dioxide. The fluorescent color become more pastel as the quantity of titanium dioxide is increased.

PA series offers limited light fastness on exterior exposure. To enhance light fastness, optimal pigment loading & UV stabilizers could be used.

To obtain maximum colour and brightness it is important to use sufficient pigment. The quantity used will depend upon the thickness of the plastic product.

## MANGALAM ENTERPRISES

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