

Technical Data Sheet

PML Series



Bright ▪ Brilliant ▪ Beautiful

A low temperature melting and dispersing, formaldehyde-free, polyamide based fluorescent colorants recommended for masterbatch manufacture and general purpose plastic use.

Customer Benefits – Made possible by Flamingo PML Series

- **Easy to disperse at low temperatures starting from 130°C:** Low temperature melting property of colorant.
- **Excellent brightness and color consistency:** New proprietary polyamide based chemistry to deliver consistent bright-brilliant-beautiful colors.
- **Faster processing and clean up:** Excellent dispersion and flow along with substantially reduced plate out to ensure ease of processing and color change overs.
- **Higher pigment loading possible in masterbatches:** Low melting property and ease of dispersion.
- **Better Thermal stability:** Wide processing range from 130°C to 280°C with minimal color change, including DIN EN 12877-2 standard compliance up to 260°C.

Applications – Processes

Suitable	Limited Suitability
Masterbatch	Liquid Colourants
Mouldings & Extrusions	Vinyl Plastics
Blow Mouldings	Vinyl Calendered Film

Applications – Polymers

Suitable	Limited Suitability
LLDPE	ABS
LDPE	Polycarbonate
HDPE	Acetal
PP	EVA & Rubber
GPPS	Nylon 6
HIPS	Cellulose Acetate
Acrylic	

Available Colors

Color	Product Code
Yellow	PML-11
Green	PML-12
Chrome	PML-13
Orange	PML-14
Red Orange	PML-15
Red	PML-16
Pink	PML-17
Pink(R)	PML-17
Magenta	PML-18
Violet	PML-19
Blue	PML-20

Typical Pigment Characteristics

Properties	Values
Average Particle size	4-6 μ
Melting Point	95°C -105°C, Yellow 110°C -120°C
Decomposition Point**	290°C
Min. Processing Temp	130°C
Maximum recommended Processing temperature (For short dwell times)	280°C
Chemical Nature	Formaldehyde free thermoplastic polyamide resin

** maximum temp. at which fluorescence is maintained
Color degradation is time/temperature dependent

PML pigments are a solid solution of thermoplastic polyamide resin with fluorescent dyes. Minimum processing temperature to ensure complete colour development is 130°C

Regulatory Compliance

- REACH
- AP 89(1)
- TSCA
- ROHS
- ASTM D 4236
- EN 71-3, 2013

Please check with us for any regulatory requirement not already listed above.

Other Information

PML 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 will become more pastel as the quantity of titanium dioxide is increased.

PML series offers limited light fastness on exterior exposure. To enhance lightfastness, 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.

PML Series has excellent temperature stability. Due to the low melting point, optimum dispersion requires a low processing temperature of above 130°C only.

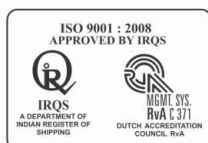
ARON UNIVERSAL LIMITED

25/1, 2nd Phase, Jigani Industrial Area, Bangalore - 560 105. INDIA

Ph : +91-80-27825 331 / 315 / 795 Fax : +91-80-27825 578

Email : sales@aronuniversal.com / exports@aronuniversal.com

Website : www.aronuniversal.com



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 to our Material Safety Data Sheet.

Disclaimer: Technical information, advice, statements, verbal and written suggestions and test results are offered for guidance only and it is believed to be reliable based on our present knowledge. These are not to be construed as a warranty for which we assume no responsibility. It is responsibility of the user to ensure that their employees are aware of the content and also to ensure that any additional regulations are satisfied. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. Users are responsible for testing our products and suggestions to ensure that they are suitable for the intended purpose and application prior to use.