

Technical Data Sheet

PA Series



Bright ▪ Brilliant ▪ Beautiful

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

Customer Benefits – Made possible by Flamingo PA 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, brilliant and beautiful colors.
- **Faster processing and clean up:** Excellent dispersion and substantially reduced plate out to ensure ease of processing and color change overs.
- **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
Masterbatch	Blow Mouldings
Mouldings & Extrusions	Liquid Colorants

Applications – Polymers

Suitable	Limited Suitability
LLDPE	HIPS
LDPE	
HDPE	
PP	

Available Colors

Color	Product Code
Yellow	PA-11
Green	PA-12
Orange	PA-14
Orange (Y)	PA-14
Orange (R)	PA-14
Red	PA-16
Pink	PA-17
Pink (R)	PA-17
Magenta	PA-18
Magenta (B)	PA-18
Violet	PA-19
Blue	PA-20

Typical Pigment Characteristics

Properties	Values
Average Particle size	Coarse powder
Melting Point	80°C -90°C
Decomposition Point**	260°C
Min. Processing Temp	120°C
Maximum recommended Processing temperature (For short dwell times)	250°C

Chemical Nature	Formaldehyde free thermoplastic polyester resin
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** maximum temp. at which fluorescence is maintained
Color degradation is time/temperature dependent

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

Regulatory Compliance

- REACH
- TSCA
- EN 71-3,2013
- RoHS
- ASTM D-4236

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

Other Information

PA 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.

PA 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.

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.