



TECHNICAL DATA SHEET

940 Series daylight fluorescent pigment

General description:

Daylight and ultra-violet responsive fluorescent plastic colourants - free of formaldehyde - for plastics.

A dyed/pigmented thermoplastic polyamide-ester copolymer.

Applications:

Recommended for extrusion, injection molding, blow molding, film blowing etc.

Particularly recommended for Polyolefins (LDPE/HDPE/PP)

Standard colours:

Product name	Description
940001	Pink
940004	Orange
940005	Orange
940015	Red
940021	Strong Magenta
940027	Yellow

Packaging:

1 box = 20kg

Storage & shelf life:

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

Safety & regulatory:

Safety Data Sheet available on request.

Physical properties

Delivery form	Powder
Average particle size	8 - 16 μm (< 20 μm)
Melting point:	125°C – 150°C
Decomposition T°	>320°C
Specific gravity	1.2 g/ml
Bulking value	0.30 – 0.40 g/ml

Processing

Heat stability	170°C – 280°C 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.
Plastics	Recommended for polyolefins (LDPE/HDPE/PP) and rubber. Other polymers should be tested.

Test methods and Certificate of Analysis (COA) available on request.

Product features and benefits:

- 940 series exhibits negligible, if any, mold plate-out and excellent heat stability.
- Compared to all other commercially available fluorescent plastic colorants, 940 series offers outstanding heat stability in injection molded plastics. The maximum recommended processing temperature is 280°C.
- To ensure complete development of the fluorescent colour effect, 940 Series pigments must be completely melted and evenly distributed throughout the plastic system.

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The guarantee is limited to the consistent quality of its products. Technical information, advice, verbal and written suggestions and test results are offered for guidance without responsibility. No warranty of merchantability 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.

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