

TECHNICAL DATA SHEET

SPC 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
SPC001	Astral Pink
SPC004	Flame Orange
SPC005	Blaze
SPC015	Fire Red
SPC021	Strong Magenta
SPC027	Lunar 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 held 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:

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

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