

# TECHNICAL DATA SHEET

## SPC-V 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.

SPC-V series has been formulated to enable increased compliance of the end product to food contact regulations.

### Standard colours:

Product name	Description
SPC001V	Astral Pink
SPC004V	Flame Orange
SPC005V	Blaze
SPC015V	Fire Red
SPC021V	Strong Magenta
SPC027V	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:

- All monomers are included in the EU list of authorized substances of regulation (EU) No 10/2011.
- Developed to meet the composition requirements of resolution AP89(1) (Use of Colourants in Plastic Materials coming into Contact with Food). For further details please consult our AP89(1) declaration.
- It is necessary that the manufacturer of end product conducts adequate testing on final product to determine if it's food contact compliant. We are able to provide information to a third party under NDA. All batches of SPC-V series are produced under special controlled validated conditions and highlighted with a V suffix.
- SPC-V series exhibits negligible, if any, mold plate-out and excellent heat stability.
- To ensure complete development of the fluorescent color effect, it must be completely melted and evenly distributed throughout the plastic system.

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