

## Sudasol™ Yellow 6501

Dyes for Plastics

### Product Description

Sudasol Yellow 6501 is a mid-shade yellow Pyrazolone dye. It exhibits bright transparent shade with excellent dispersibility. It is recommended for transparent coloration of thin films, fibres, yarns and coloration of engineering polymers - moulding products.

### Product Information

<b>Chemical Type</b>	Pyrazolone	<b>CAS NO.</b>	4702-90-3
<b>C. I. Name</b>	Solvent Yellow 93 (Solvent Dye in Powder form)	<b>EU No.</b>	225-184-1
<b>C. I. No.</b>	48160	<b>Physical Appearance</b>	Yellow Powder

### Application Profile

PS / SAN	●	PBT	○
ABS	○	PET	○
PC	●	Nylon 6	--
PVC-R	●	PO / PVC-P	--

● Recommend | ○ Potential Use | -- Not recommended

Heat Stability – 1/3 SD in PS (Reduction)	1/3 SD (g/kg)	Light Fastness
300°C	Poly Styrene = 1.20	Poly Styrene – Full Shade (0.10% Dyes) = 8
	Poly Carbonate = 1.30	Poly Styrene – Reduction (1:10 :: Dyes:TiO <sub>2</sub> ) = 7-8

### Physical Properties

Bulk Density (g/cc)	0.48 ± 0.1	Resistance to Acid	5
Melting point	182°C ± 5°C	Resistance to Alkali	5

- ✓ **Light fastness:** The fastness to light be determined on injection molded plastic swatches of approximately 2 mm thickness. Test swatches exposed in Q-SUN and the visual rating given on 1 to 8 Blue Wool scale where 1 = 'Poor' and 8 = 'Excellent'.
- ✓ **Heat stability:** The Heat stability indicated is the maximum temperature in °C at which a change of color (DE ≤ 3) occurs after a dwell time of 5 minutes in the barrel of an injection molding machine as per DIN EN 12877-1.
- ✓ **Resistance to Acid and Alkali:** Swatches of PS with combination of 0.1% Dyes and 1.00% TiO<sub>2</sub> were placed for 24 hrs in 5% hydrochloric acid and 5% caustic soda solution respectively. Assessments were made by 5 step grey scale; where 1 = Heavy change in shade and 5 = No change in shade.

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