

Sudasol™ Orange 6601

Dyes for Plastics

Product Description

Sudasol Orange 6601 is a transparent, brilliant orange Perinone dye. The product has excellent gloss, high color strength and good dispersibility. It is recommended for transparent coloration of engineering plastics as well as thin films, fibres, yarns, etc.

Product Information

Chemical Type	Perinone	CAS NO.	6925-69-5
C. I. Name	Solvent Orange 60 (Solvent Dye in Powder form)	EU No.	230-049-5
C. I. No.	564100	Physical Appearance	Orange Powder

Application Profile

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

● Recommend | ○ Potential Use | -- Not recommended

Heat Stability 1/3 SD in PS (Reduction)	Fastness to bleeding in PS	1/3 SD (g/kg)	Light Fastness
300°C	5	Poly Styrene = 1.60	Poly Styrene – Full Shade (0.10% Dyes) = 8
		Poly Carbonate = 1.60	Poly Styrene – Reduction (1:10 :: Dyes:TiO ₂) = 6

Physical Properties

Bulk Density (g/cc)	0.24 ± 0.1	Resistance to Acid	5
Melting point	225°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% TiO₂ 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.
- ✓ **Bleeding fastness in PS:** The fastness to bleeding in Polystyrene (PS) is determined on a colored PS plastic chip in contact with a white-pigmented plastic chips in an oven at 80°C for 2 hrs and the visual rating given on 1 to 5 scale where 1 = 'Heavy bleeding' and 5 = 'No bleeding'.

Disclaimer – The information given in this data sheet is based on the present state of our knowledge & is intended as a general description of our products & their possible applications. Neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Because of the multitude of formulations, production & application conditions, all the above mentioned data have to be adjusted to the circumstances of the processor. No liabilities, including those for patent rights, can be derived from this fact for individual cases. It cannot be ruled out that this product contains particles < 0.1 µm. Any user of this product is responsible for determining the suitability of Sudarshan's products for its particular application & to ensure that any proprietary rights & existing laws & legislation are observed.