SUDARSHAN

First choice for new formulations

Sudacolor™ Yellow 165

Pigment for Plastics

Product Description

Sudacolor Yellow 165 is a mid-shade diarylide yellow pigment. It is a cost effective pigment. Largely used in PVC and PVC compound applications. It is also used in special applications including home and personal care and stationary.
*Thermal decomposition of diarylide pigments occur if processed above temperature of 200°C.

Product Information

Chemical Type	Disazo	**CAS NO.**	5102-83-0
C. I. Name	Pigment Yellow 13	**EINECS / ELINCS NO.**	225-822-9
C. I. Constitution No.	21100	**Physical Appearance**	Yellow powder

Application Profile

Polyolefins	●	ABS	––
Polystyrene	––	Spun Fiber - PP	––
PVC & PVC Leather Cloth	●	Spun Fiber - Nylon	––
EVA	●	Spun Fiber - PET	––

● Recommend | ○ Potential Use | -- Not recommended

Technical Performance

Heat Stability	Fastness to Bleeding in LDPE		Full Shade	Tint
*200°C	4	Weather Resistance	-	-
		Light Fastness	6-7	6

Physical Properties

Oil Absorption	52 ± 5%	Resistance to Acid	5
Specific Gravity	1.20 + 0.1	Resistance to Alkali	3-4
Bulk Density (g/ml)	0.32 ± 0.1	Fastness to Bleeding in PVC -P	3
pH Value	7 - 9	Specific Surface Area (m^2/g)	-
Volatile Matter	1% max	Average size of Primary Particle (nm)	-

- ✓ **Light fastness:** The fastness to light be determined on injection molded plastic swatches of approximately 2 mm thickness. Test swatches exposed in QUV and the visual rating given on 1 to 8 Blue Wool scale where 1 = 'Poor' and 8 = 'Excellent'.
- ✓ **Weather fastness:** The fastness to weather is determined on injection molded plastic swatches of approximately 2 mm thickness. Test swatches exposed in Xenon Arc for 1000 hrs and the visual rating given on 1 to 5 Grey scale where 1 = 'Poor' and 5 = '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.
- ✓ **Oil absorption:** The oil absorption is determined on the basis of EN ISO 787-5 and given in g linseed oil per 100 gm. pigment.
- ✓ **Bleeding fastness:** The fastness to bleeding in PVC-P is determined on a colored PVC film in contact with a white-pigmented PVC film in an oven at 140˚C for 2 hrs and the visual rating given on 1 to 5 Grey scale where 1 = 'Poor' and 5 = 'Excellent'.

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