



## VERSAL YELLOW H4G 01


  
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 TiO<sub>2</sub> 1:10

### Characteristic

C. I.	Pigment Yellow 151
C. I. No.	13980
CAS No.	31837-42-0
Chemical Class	Benzimidazolone

### Properties

Oil Absorption [ml/100 g]	83
Density [g/cm <sup>3</sup> ]	1.5
Bulking Volume [l/kg]	2.7

### Fastness

Linseed Oil	5
White Spirite	5
DEHT	5
Xylene	4-5
Acetone	4-5
Butylacetate	5
Ethanol	5
Water	5
HCl 2.5%	5
NaOH 2.5%	3
Light - Full Shade	7-8
Light - 1/1	7-8
Light - 1/3	7-8
Weather - Full Shade	5
Weather - 1/1	4-5
Weather - 1/3	4
Overspray	5
Heat Resistance [°C]	P 290
Migration	5

P - in Plastics

**Application Possibilities**

Printing Inks - Nitrocellulose	<input type="checkbox"/>
Printing Inks - Water based	<input checked="" type="checkbox"/>
Printing Inks - Decorative Laminates	<input checked="" type="checkbox"/>
Printing Inks - UV Curing	<input checked="" type="checkbox"/>
Paints - Decorative	<input checked="" type="checkbox"/>
Paints - Industrial	<input checked="" type="checkbox"/>
Paints - Automotive	<input checked="" type="checkbox"/>
Paints - Powder Coatings	<input checked="" type="checkbox"/>
Plastics - Polyolefines	<input checked="" type="checkbox"/>
Plastics - PVCp	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> main application	<input type="checkbox"/> side application

**Other Informations**

Shelf Life	48 months
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**Testing methods**
**Density**

- determined by ČSN EN ISO 787-10: 1997 (67 0520) in g/cm<sup>3</sup>

**Bulking Volume**

- denotes the volume of 1 kg of loosely poured pigment, expressed in litres

**Oil Absorbtion**

- determined by ČSN EN ISO 787-5: 1997 (67 0520) in ml/100 g pigment

**Fastness to Solvents**

- colouring of solvent after 24 h at 20 °C according to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one

**Fastness to Reagents**

- colouring of reagents after 24 h at 20 °C according to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one

**Light Fastness - Xenotest**

- determined by ČSN EN ISO 105-B02: 2000 (80 0147) and evaluated in 1/3 and 1/1 of standard depth and in full shade; determined according to blue scale, by it degree 1 denotes the lowest fastness, degree 8 the highest one

**Weathering Fastness - Xenotest**

- determined by ČSN EN ISO 105-B04: 1998 (80 0171) and evaluated in 1/3 and 1/1 of standard depth and in full shade; determined according to grey scale, by it degree 1 denotes the lowest fastness, degree 5 the highest one

**Overspray Fastness**

- assessment of bleeding into a white nitrocellulose combination lacquer for 60 min. at 70 °C against ISO grey scale; by it degree 1 denotes the lowest fastness, degree 5 the highest one

**Heat Resistance**

- the values quoted indicate up to what temperature the pigments do not significantly alter; these are guide values which can be influenced by the binder used and the period of exposure to high temperature

**Migration Fastness**

- assessment of bleeding into a white polyvinylchloride sheet for 24 h at 70 °C against ISO grey scale; by it degree 1 denotes the lowest fastness, degree 5 the highest one; no data means that the pigment is not recommended for dyeing of PVC

**Fastness to plasticizers**

- colouring of plasticizer (diethylhexylterephthalate) after 24 h at 20 °C according to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one