

TiO₂ 1:1

TiO₂ 1:10

Characteristics

C. I.	Pigment Yellow 181
C. I. No.	11777
CAS No.	74441-05-7
Chemical class	Benzimidazolone

Properties

Oil Absorption [ml/100 g]	84
Density [g/cm ³]	1.5
Bulking Volume [l/kg]	4.4

Fastness

Linseed Oil	5
White Spirite	5
DEHT	5
Xylene	4-5
Acetone	4
Butylacetate	4-5
Ethanol	4-5
Water	5
HCl 2.5%	5
NaOH 2.5%	5
Light - Full Shade	7
Light - 1/1	7
Light - 1/3	6-7
Weather - Full Shade	4-5
Weather - 1/1	4-5
Weather - 1/3	4
Overspray	
Heat Resistance [°C]	P 280
Migration	5

P - in Plastics

Application Possibilities

Printing Inks - Nitrocellulose	☐
Printing Inks - Water based	☒
Printing Inks - Decorative Laminates	☒
Printing Inks - Offset	☐
Printing Inks - UV Curing	☒
Paints - Decorative	☐
Paints - Industrial	☐
Paints - Powder Coatings	☒
Plastics - Polyolefines	☒
Plastics - PVCp	☒
☒ main application	☐ 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^3

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