

TiO₂ 1:1

TiO₂ 1:10

Characteristics

C. I.	Pigment Orange 36
C. I. No.	11780
CAS No.	12236-62-3
Chemical class	Benzimidazolone

Properties

Oil Absorption [ml/100 g]	58
Density [g/cm ³]	1.6
Bulking Volume [l/kg]	2.9

Fastness

Linseed Oil	5
White Spirite	5
DEHT	4-5
Xylene	4-5
Acetone	4-5
Butylacetate	4-5
Ethanol	4-5
Water	5
HCl 2.5%	5
NaOH 2.5%	5
Light - Full Shade	7-8
Light - 1/1	7-8
Light - 1/3	7
Weather - Full Shade	4
Weather - 1/1	4
Weather - 1/3	3-4
Overspray	5
Heat Resistance [°C]	C 160

Migration

C - in Coatings

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 - Automotive	☒
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