



VERSAL RED BRA


 TiO₂ 1:1


 TiO₂ 1:10

Characteristic

| | |
|----------------|-----------------|
| C. I. | Pigment Red 144 |
| C. I. No. | 20735 |
| CAS No. | 5280-78-4 |
| Chemical Class | Disazo Cond. |

Properties

| | |
|------------------------------|-----|
| Oil Absorption [ml/100 g] | 94 |
| Density [g/cm ³] | 1.6 |
| Bulking Volume [l/kg] | 5.7 |

Fastness

| | |
|----------------------|----------|
| Linseed Oil | 5 |
| White Spirite | 5 |
| DEHT | 5 |
| Xylene | 4 |
| Acetone | 4-5 |
| Butylacetate | 4-5 |
| Ethanol | 5 |
| Water | 5 |
| HCl 2.5% | 5 |
| NaOH 2.5% | 5 |
| Light - Full Shade | P 7-8 |
| Light - 1/1 | 7-8 |
| Light - 1/3 | 7-8 |
| Weather - Full Shade | P 4D |
| Weather - 1/1 | 3-4 |
| Weather - 1/3 | 3-4 |
| Overspray | 4-5 |
| Heat Resistance [°C] | P 280 |
| Migration | 4-5 |

P - in Plastics, D - Duller

Application Possibilities

| | |
|-------------------------|--------------------|
| Plastics - Polyolefines | ● |
| Plastics - PVCp | ● |
| Plastics - PP Fibers | ● |
| ● main application | ○ side application |

Other Informations

| | |
|------------|-----------|
| Shelf Life | 48 months |
|------------|-----------|

Testing methods
Density

- determined by ČSN EN ISO 787-10: 1997 (67 0520) in $v \text{ g/cm}^3$

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