

KRONOS



KRONOS[®] 2450

titanium dioxide

KRONOS INFORMATION **2.2**

an economical universal pigment with very good flow properties

Applications

Polystyrenes and copolymers
Masterbatches

Properties

KRONOS 2450 titanium dioxide

- has excellent conveying and metering properties
- is designed principally for use in bulk
- disperses readily and enables production of pigment concentrates
- confers very high brightness and approaches a neutral tone in whites
- has very high tinting strength and imparts very good opacity to films and injection mouldings

Product Characteristics

Production	rutile pigment produced by the chloride process
Surface treatment	aluminium and silicon compounds, polysiloxane and polyalcohol compounds
TiO ₂ content (ISO 591)	≥ 96 %
Standard classification (ISO 591; DIN 55912, Part 1)	R 2
Density (ISO 787, Part 10)	4.1 g/cm ³

Product Specifications (excerpt)

Compliance with the following product specifications is constantly checked and is the prerequisite for release of the finished product.

Brightness (PLV L*) ¹	98.1 – 98.9
Tone, white (PLV b*) ²	0.0 – 0.8
Relative scattering power (VIG HTS) ³	102.0 – 111.0
Tone, grey (VIG HSC) ⁴	4.4 – 5.0

Methods of determination:

¹ PLV L* Brightness determined on powder tablet (CIELAB L*)

² PLV b* Tone measured on powder tablet (CIELAB b*)

³ VIG HTS Relative scattering power after processing in a Vinnol black paste

⁴ VIG HSC Tone after processing in a Vinnol black paste

Application Data

Colorimetric value L* of white PVC-P-film ¹	97.8
Colorimetric value b* of white PVC-P-film ¹	3.9
Colorimetric value b* of grey PVC-P-film ¹	-0.6
Relative tinting strength ^{1;2}	105 %

¹ The optical properties are determined by our standard method on white and grey PVC-P films (see KRONOS Information 4.1). The colorimetric values L* and b* (measured with "color-view"™ from Byk-Gardner) characterise the brightness and tone of specimens pigmented with titanium dioxide.

² The reference pigment is KRONOS 2220 = 100 %.