

## KRONOS<sup>®</sup> 2211

titanium dioxide

KRONOS INFORMATION **2.2**

is a versatile white pigment for plastics

### Applications

PVC  
Plastisols  
Masterbatches  
Polystyrene and copolymers  
Linoleum

### Properties

#### KRONOS 2211 titanium dioxide

- imparts high brightness to, and approaches a neutral tone in, white plastics
- has high tinting strength and hiding power
- gives brilliant, clean tints
- is readily wetted and dispersed

### Product Characteristics

Production	rutile pigment produced by the chloride process
Surface treatment	aluminium compounds and a polysiloxane compound
TiO <sub>2</sub> content (ISO 591)	≥ 95.5 %
Standard classification (ISO 591; DIN 55 912, Part 1)	R 2
Density (ISO 787, Part 10)	4.1 g/cm <sup>3</sup>

### Product Specifications (excerpt)

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

Brightness (DFC L*) <sup>1</sup>	97.2 – 98.0
Tone, white (DFC b*) <sup>2</sup>	1.0 – 1.7
Relative scattering power (VIG HTS) <sup>3</sup>	103.0 – 109.0
Tone, grey (VIG HSC) <sup>4</sup>	4.2 – 4.8
Dispersibility (DOP) <sup>5</sup>	≤ 0.02 %

Methods of determination:

- <sup>1</sup> DFC L\* brightness in white air-drying paint (CIELAB L\*)  
<sup>2</sup> DFC b\* tone in white air-drying paint (CIELAB b\*)  
<sup>3</sup> VIG HTS relative scattering power after processing in a Vinnol black paste  
<sup>4</sup> VIG HSC tone after processing in a Vinnol black paste (absolute value of CIELAB b\*)  
<sup>5</sup> DOP sieve residue (in %) > 40 µm after dispersion in dioctyl phthalate

### Application Data

Colorimetric value L* of white PVC-P-film <sup>1</sup>	98.0
Colorimetric value b* of white PVC-P-film <sup>1</sup>	3.2
Colorimetric value b* of grey PVC-P-film <sup>1</sup>	- 1.0
Relative tinting strength <sup>1; 2</sup>	105 %

<sup>1</sup> The optical properties are determined by our standard method on white and grey PVC-P film (see KRONOS Information 4.1). The colorimetric values L\* and b\* characterise the brightness and tone of specimens pigmented with titanium dioxide.

<sup>2</sup> The reference pigment is KRONOS 2220 = 100 %.

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