

Full Shade	Reduction 1:25 TiO ₂
	

Product Description	
Chemical characterization	Benzimidazolone
Color Index	Pigment Yellow 151
Appearance	Yellow powder
C.I. No.	13980
CAS No.	31837-42-0

Product Description			
	Unit	Value	Test Method
Hue angle [1/3 SD]		92.0	acc. to DIN EN ISO/CIE 11664-4
1/3 SD reduction ratio		1:3.2	acc. to DIN 53235-2

Technical Data			
	Unit	Value	Test Method
Density	[g/cm ³]	typ. 1.6	acc. to ISO 787-10
Bulk volume	[l/kg]	typ. 2.5	
Specific surface	[m ² /g]	typ. 16.0	acc. to DIN ISO 66132
Oil absorption	[g/100g]	typ. 48	acc. to ISO 787-5

Fastness Properties		
Resistance to Chemicals		
	Value	Test Method
Acid	5	rating acc. to DIN EN ISO 105-A03
Alkali	5	rating acc. to DIN EN ISO 105-A03
Water	5	rating acc. to DIN EN ISO 105-A03
Butanol	5	rating acc. to DIN EN ISO 105-A03
Butylacetate	5	rating acc. to DIN EN ISO 105-A03
Xylene	5	rating acc. to DIN EN ISO 105-A03
MEK	5	rating acc. to DIN EN ISO 105-A03
White spirits	5	rating acc. to DIN EN ISO 105-A03

Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.

Solvent resistance: Pigment was dipped into solvent. Rating with gray scale: 1=poor, 5=excellent.

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	Value	Test Method
Overpainting fastness	5	rating acc. to DIN EN ISO 105-A03
Heat resistance [°C]	170	acc. to ISO 787-21
Light fastness [full shade]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02
Light fastness [1/3 SD]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02

Overpainting: Tested in alkyd/melamine system with 30 minutes baking time at 160 °C. Rating with gray scale: 1=poor, 5=excellent.

Heat resistance: Tested in alkyd/melamine system.

Light Fastness: Tested in water based automotive system. Rating with 8-step wool scale: 1=poor, 8=excellent.

Weather Fastness		
	Full Shade	1/3 SD
1600 h	5	5
3200 h	5	5
4800 h	5	4

Tested acc. to DIN EN ISO 16474-2 in water based automotive system. Rating with gray scale in acc. to DIN EN ISO 20105-A02: 1=poor, 5=excellent.

Application Profile	
Automotive coatings	+++
Industrial coatings	+++
Decorative coatings	+++
Coil coatings	+++
Powder coatings	+++
+++ Excellent choice ++ Good choice + Possible choice	

Packaging and Handling	
Packaging	20 kg cardboard boxes
Packaging	Different types of packaging are available on request.

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