MONOLITE™ Yellow 108304 (PY 83)

Full Shade	Reduction 1:25 TiO_2

Product Description	
Chemical characterization	Diarylide yellow
Color Index	Pigment Yellow 83
Appearance	Yellow powder
C.I. No.	21108
CAS No.	5567-15-7

Product Description	Unit	Value	Test Method
Hue angle [1/3 SD]		71.6	acc. to DIN EN ISO/CIE 11664-4
1/3 SD reduction ratio		1:4.3	acc. to DIN 53235-2

Technical Data	Unit	Value	Test Method
Density	[g/cm³]	typ. 1.5	acc. to ISO 787-10
Bulk volume	[l/kg]	typ. 4.3	
Specific surface	[m²/g]	typ. 20.0	acc. to DIN ISO 66132
Oil absorption	[g/100g]	typ. 54	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	4	rating acc. to DIN EN ISO 105-A03
Butanol	4	rating acc. to DIN EN ISO 105-A03
Butylacetate	4	rating acc. to DIN EN ISO 105-A03
Xylene	4	rating acc. to DIN EN ISO 105-A03
MEK	3	rating acc. to DIN EN ISO 105-A03
White spirits	4	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]	150	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 2K acrylic system with 30 minutes baking time at 80 °C. Rating with gray scale: 1=poor, 5=excellent.
Heat resistance: Tested in 2K acrylic system.
Light fastness: Tested in 2K acrylic system. Rating with 8-step wool scale: 1=poor, 8=excellent.

Weather Fastness		
	Full Shade	1/3 SD
1000 h	4	3
2000 h	4	3

Tested acc. to DIN EN ISO 16474-2 in 2K acrylic 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.

Safety

Diarylide pigments should not be used at processing temperatures exceeding 200 °C due to potential cleavage to 3,3'-dichlorobenzidine (DCB) under these conditions.

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