

ADA3205 Product Data Sheet

UV-Visible Water Soluble Fluorescent Red Organic Pigment

Application: Marking, Coding, Security Printing

ADA3205 is a speciality water soluble product having an easy to implement fluorescent effect, for use in the printing ink and lacquer industry. In normal daylight conditions, ADA3205 powder is virtually invisible on substrate. However, on exposure to UV-C light (optimal effect achieved at approx. 288 nm), the red fluorescence intensity becomes visible (emission at approx. 616 nm).

ADA3205 powder is thus a highly effective special additive for coding and marking purposes (e.g. usage in security printing). Possible application fields are high quality, solvent-free or solvent-containing special printing inks and lacquers with very good light fastness on plastic and on paper surface.

Product Properties

Composition:	Organic Substance
Physical Appearance:	White Powder
Excitation color at 365nm:	Colorless
Excitation color at 288nm:	Red
Odor:	Odorless
Density in powder form:	Approx. 0.54 kg/dm ³
Thermal Stability:	160 ⁰ C
Light fastness:	Excellent (In 15% concentration in printing ink, on paper and on polymer surface with minimum 10 years stability.)
UV Intensity:	Excellent
Durable against climatic test:	Yes

Solubility at T=22°C, t=2h in: (deviation approx. ± 5%)

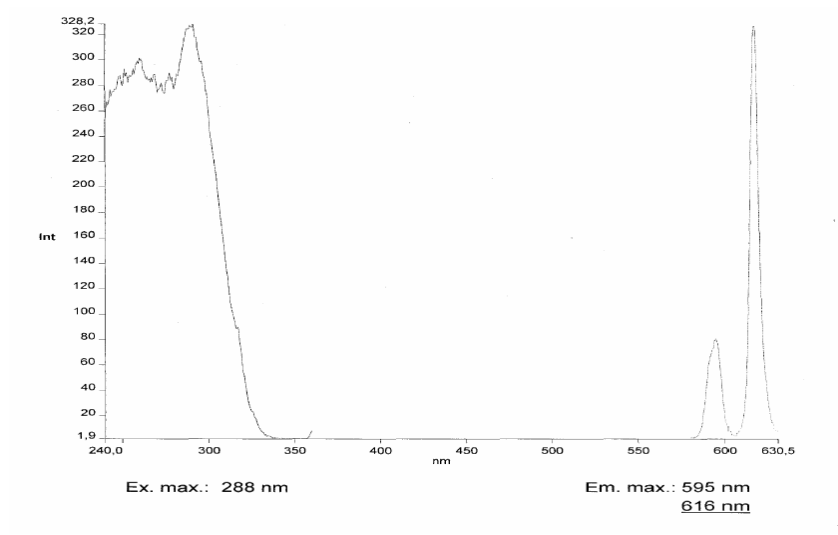
Water (pH 7):	2.9 g/L
Water (pH 10):	13.0 g/L
Acetone:	3.0 g/L
Ethyl Acetate:	Insoluble
Xylene:	Insoluble
Methanol:	Insoluble
Cyclohexanone:	Insoluble

Typical Luminescent Properties:

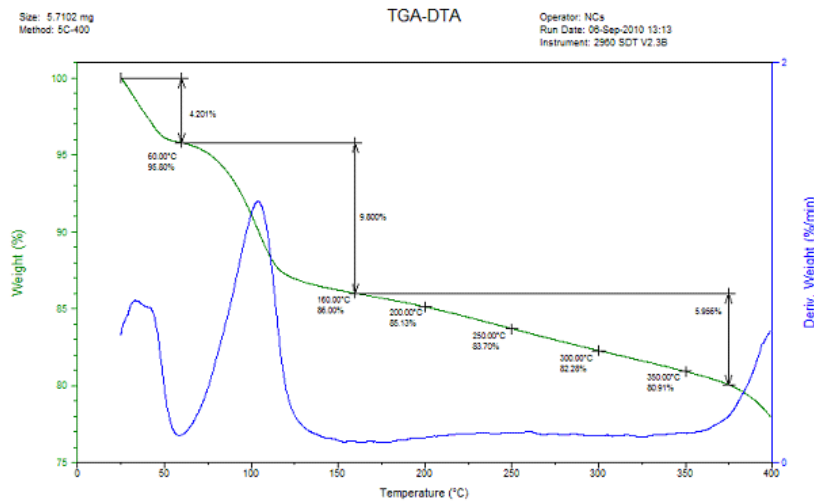
Abs. Max.; λ max:	288nm
Emission Max, λ max:	616nm



Typical excitation and fluorescence spectra:



Thermal Stability



All applications using this product should be thoroughly tested prior to approval for production.

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