

ADA2999 Product Data Sheet

UV-Visible Fluorescent Yellow-Green Organic Pigment

Application: Marking, Coding, Security Printing

ADA2999 is a specialty product having an easy to implement fluorescent effect, for use in the printing ink and lacquer industry. In normal daylight conditions, ADA2999 powder is virtually invisible on substrate. However, on exposure to UV-A and/or blue light (optimal effect achieved at approx. 350 nm), the yellow-green fluorescence intensity becomes visible (emission at approx. 530 nm).

ADA2999 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. **Durable for laminating process.**

Product Properties

Composition:	Organic Substance
Physical Appearance:	Off White Powder
Excitation color at 365nm:	Yellow-Green
Odor:	Odorless
Density in powder form:	Approx. 0.33 kg/dm ³
Thermal Stability:	200 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
Particle Size Distribution:	d(50)=3-3.5 μm
Laminating process:	Durable. Time = 45 min, Pressure =300N/cm ² , T=185°C
Durable against climatic test:	Yes

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

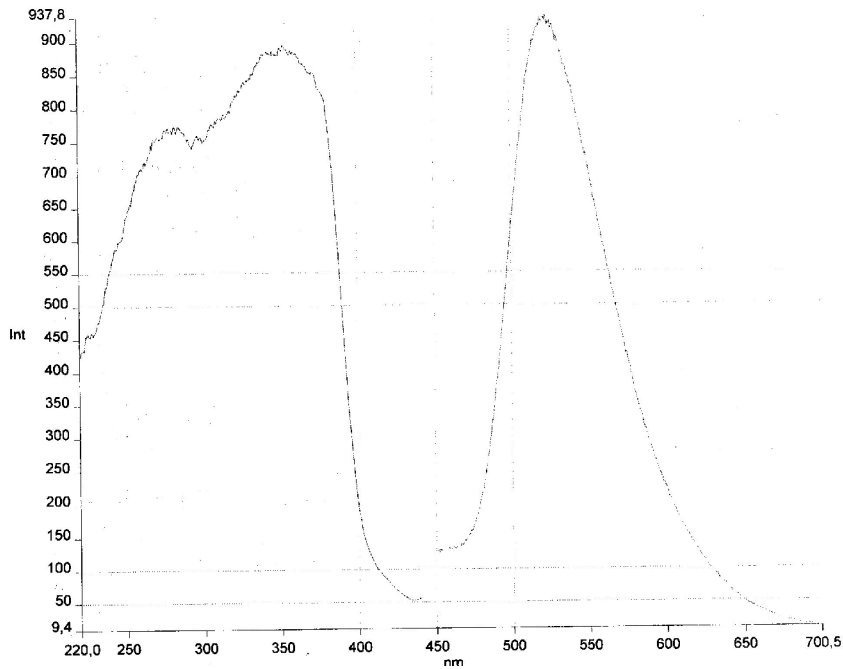
Water (pH 7):	Insoluble
Acetone:	18.0 g/L
Ethyl Acetate:	Insoluble
Xylene:	8.8 g/L
Methanol:	Insoluble
Cyclohexanone:	24.5 g/L

Typical Luminescent Properties:

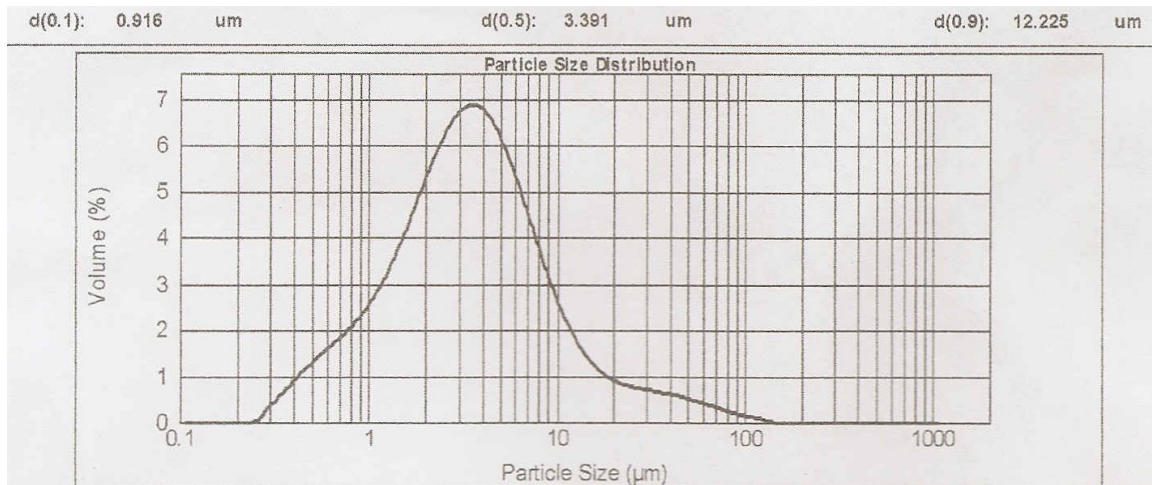
Abs. Max.; λ max: 350nm

Emission Max, λ max: 530nm

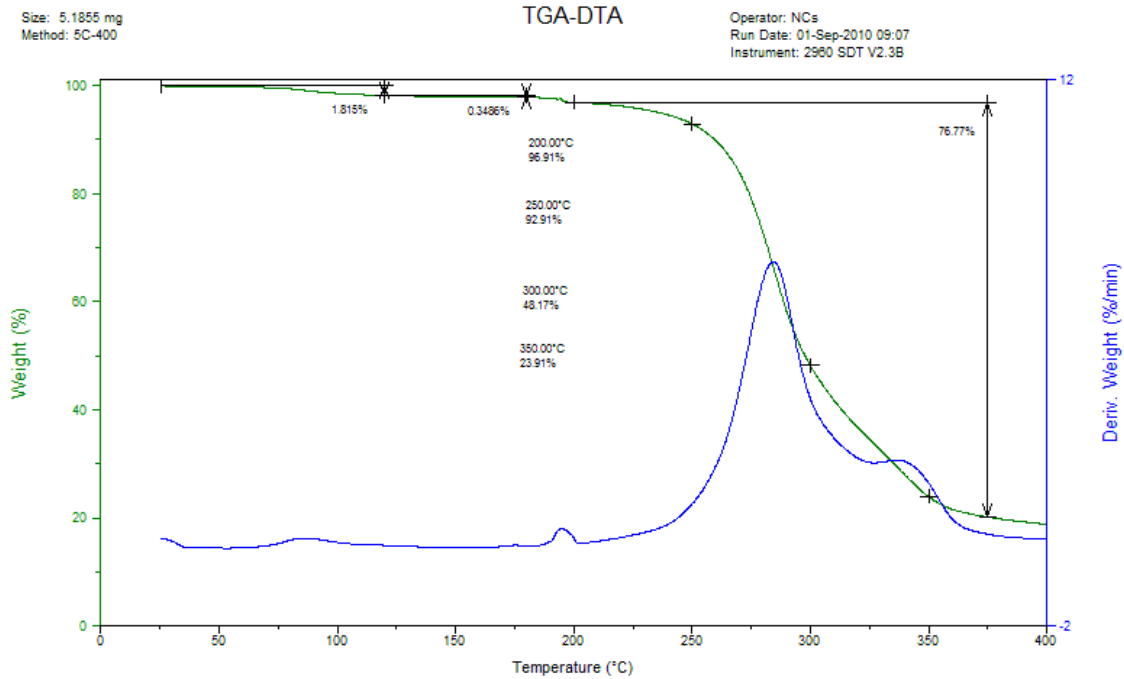
Typical excitation and fluorescence spectra:



Particle Size Distribution



Thermal Stability



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

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