

ADA3221 Product Data Sheet

UV-Visible Fluorescent Violet Organic Pigment

Application: Marking, Coding, Security Printing

ADA3221 is a specialty product having an easy to implement fluorescent effect, for use in the printing ink and lacquer industry. In normal daylight conditions, ADA3221 powder is virtually invisible on substrate. However, on exposure to UV-A and/or blue light (optimal effect achieved at approx. 350-400 nm), the unique violet fluorescence intensity becomes visible (emission at approx. 440 nm).

ADA3221 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.** Applicable with PCV, PVB, Nitrocellulose binder.

Product Properties

Composition:	Organic Substance
Physical Appearance:	White Powder
Excitation color at 365nm:	Violet (easy to implement)
Odor:	Odorless
Density in powder form:	Approx. 0.23 kg/dm ³
Thermal Stability:	250 ⁰ C
Light fastness:	Excellent (In 15% concentration in printing ink, on paper and on polymer surface with minimum 10 years stability.)
UV Intensity:	Good
Laminating process:	Durable. Time = 45 min, Pressure =300N/cm ² , T=185°C

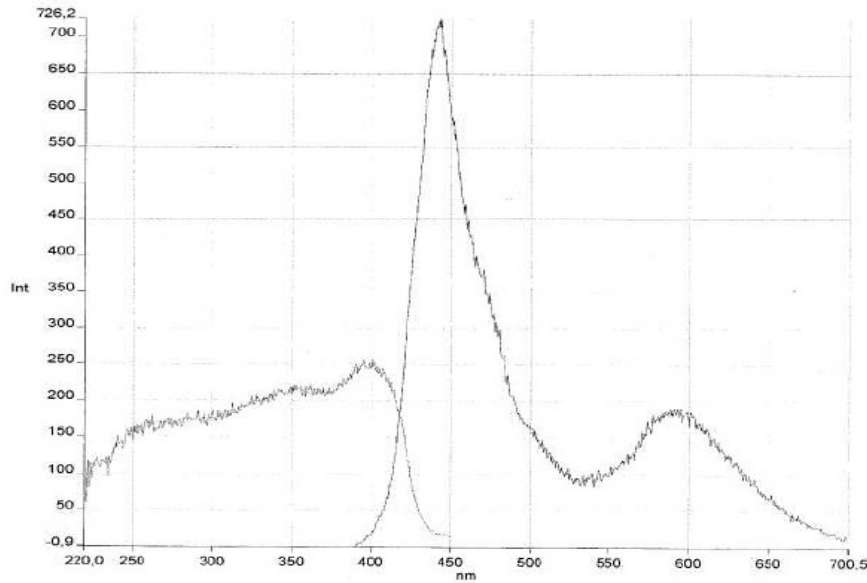
Solubility at T=22°C, t=2h in: (deviation approx. ± 5%)

Water (pH 7):	0.0 g/L
Acetone:	0.0 g/L
Ethyl Acetate:	1.0 g/L
Xylene:	4.1 g/L
Methanol:	16.5 g/L
Cyclohexanone:	2.0 g/L

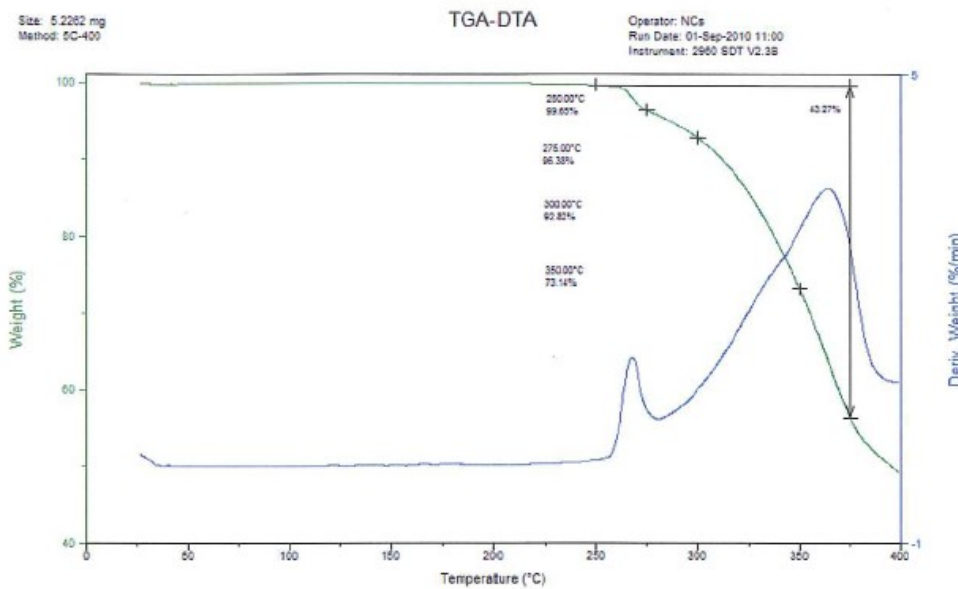
Typical Luminescent Properties:

Abs. Max.; λ max:	401nm
Emission Max, λ max:	444nm

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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