

## ADA5220 Product Data Sheet

### UV-Visible Fluorescent Violet Organic Pigment

#### Application: Marking, Coding, Security Printing

ADA5220 is a specialty product having an easy to implement fluorescent effect, for use in the printing ink and lacquer industry. In normal daylight conditions, ADA5220 powder is virtually invisible on substrate. However, on exposure to UV-A and/or blue light (optimal effect achieved at approx. 390 nm), the unique violet fluorescence intensity becomes visible (emission at approx. 425 nm).

ADA5220 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

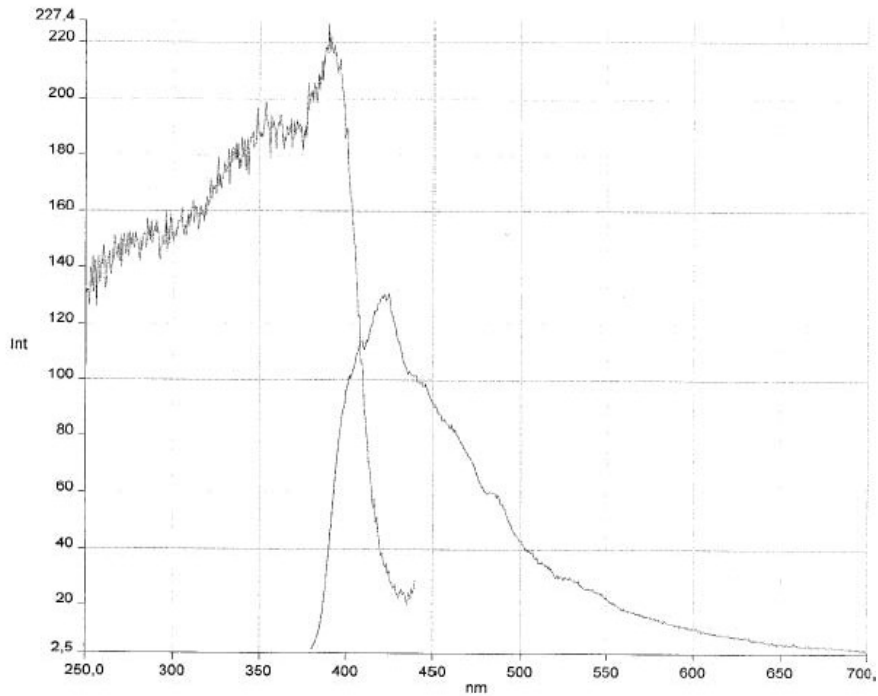
Composition:	Organic Substance
Physical Appearance:	White Powder
Excitation color at 365nm:	Violet
Odor:	Odorless
Thermal Stability:	220 <sup>0</sup> C
Light fastness:	Excellent (In 15% concentration in printing ink, on paper and on polymer surface with minimum 10 years stability.)
UV Intensity:	Excellent
Laminating process:	Durable. Time = 45 min, Pressure =300N/cm <sup>2</sup> , T=185°C
Durable against climatic test:	Yes

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

Water (pH 7):	2.0 g/L
Acetone:	23.0 g/L
Ethyl Acetate:	1.1 g/L
Xylene:	39.0 g/L
Cyclohexanone:	2.0 g/L

#### Typical Luminescent Properties:

Abs. Max.; λ max:	390nm
Emission Max, λ max:	425nm

***Typical excitation and fluorescence spectra:***

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

*The information herein is believed to be reliable and is to assist customers in determining whether our products are suitable for their applications. However, no warranty, express or implied, is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute any other warranty, express or implied, including any warranty of merchantability or fitness, nor of protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental, or consequential damages. We shall not be liable for damages to person or property resulting from its use. Consult the Material Safety Data Sheet for additional information*