

Industrial Coatings

Technical Data Sheet

Tinuvin[®] 5866



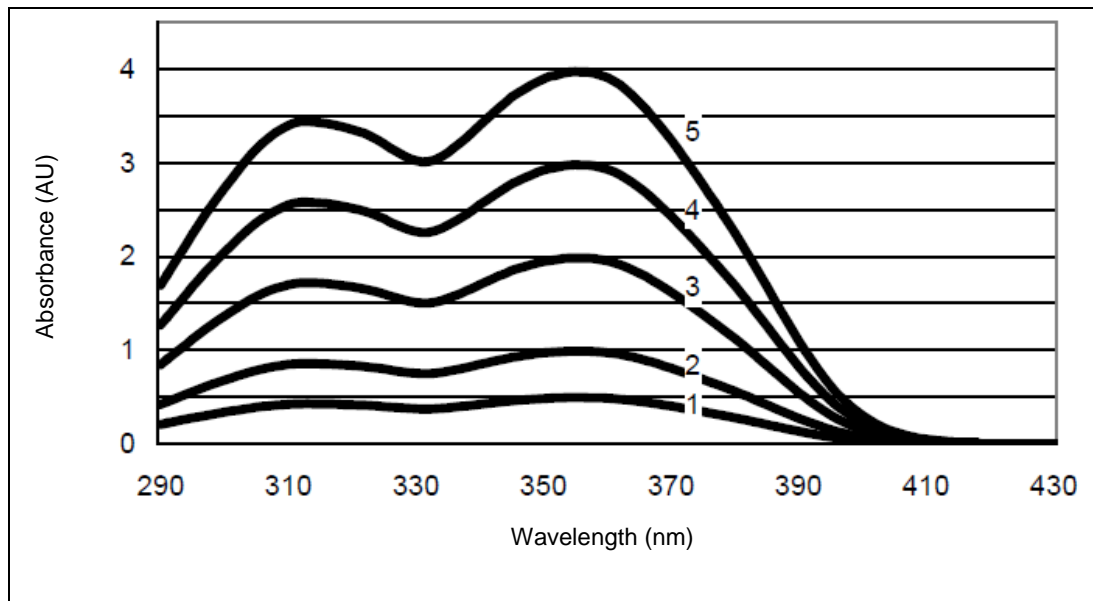
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| Product Description | Tinuvin [®] 5866 is a solid light stabilizer blend containing UV absorber and HALS components for adhesive and sealant applications. |
| Key Features & Benefits | <ul style="list-style-type: none">- <i>Medium to long-term performance and thermal stability</i>- <i>Excellent initial color</i>- <i>Synergistic combination imparts protection against gloss reduction, cracking, blistering, delamination or color change, providing full substrate protection</i> |
| Chemical Composition | Blend of 2-(2-hydroxyphenyl)-benzotriazole UVA and a basic HALS |

Properties

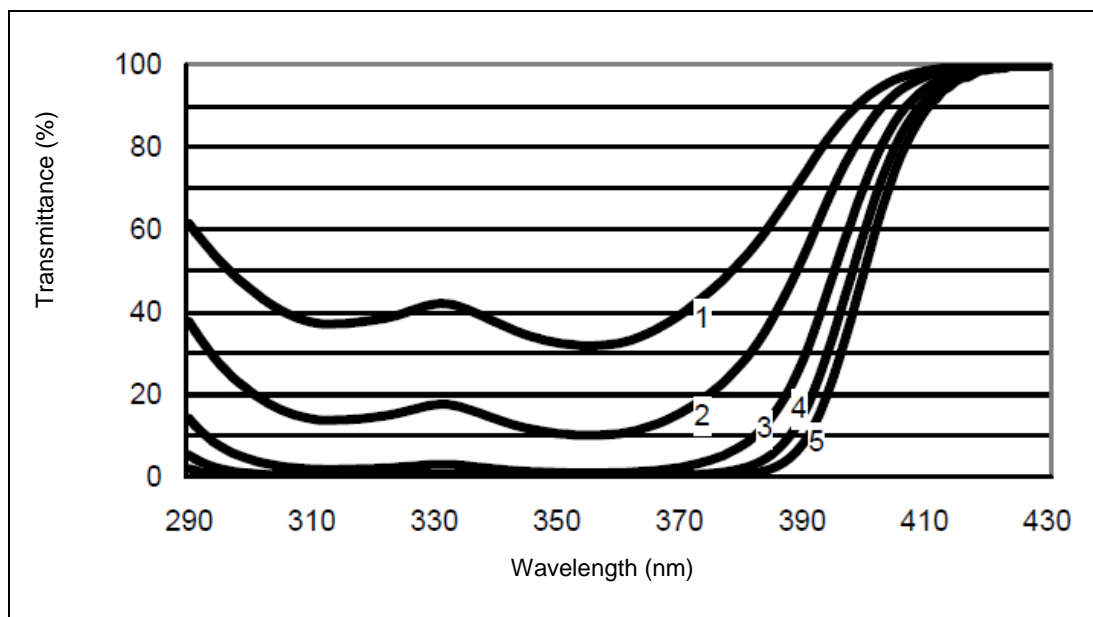
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|---------------------------|---|--|
| Typical Properties | Appearance | white to slightly yellow free-flowing powder |
| | Flash point | 232 – 234°C |
| | Melting point | 115 – 119°C |
| | <u>Solubility at 25°C (g/100g solution)</u> | |
| | Acetone | 7.5 |
| | Ethyl acetate | 9 |
| | Methanol | < 0.01 |
| | Methylene chloride | 29 |
| | Toluene | 13 |

These typical values should not be interpreted as specifications.

UV Absorbance Spectrum
(40 mg/l in toluene, light path length = 1 cm).



UV Transmission Spectrum
(The theoretical concentration of the UVA in an applied 40 µm clear coat was calculated as a function of the concentration in toluene with the help of the Lambert-Beer law.)



Line one: 10 mg/l (0.001% ~ 0.25% active in 40µm)
 Line two: 20 mg/l (0.002% ~ 0.50% active in 40µm)
 Line three: 40 mg/l (0.004% ~ 1.00% active in 40µm)
 Line four: 60 mg/l (0.006% ~ 1.50% active in 40µm)
 Line five: 80 mg/l (0.008% ~ 2.00% active in 40µm)

Applications

Tinuvin® 5866 is a highly efficient light stabilizer blend in adhesive and sealant applications.

Binder systems

Tinuvin® 5866 is recommended for the following binder systems:

- MS polymers
- Polyurethanes
- Silicone sealants

Processing Caution

Tinuvin® 5866 can undergo acid/base interactions with components such as biocides, surfactants and pigments. It can also interfere with acid-catalyzed crosslinking reactions, retard curing or modify film properties.

Recommended concentrations

The amount of Tinuvin® 5866 required for optimum performance should be determined in trials covering a concentration range. The concentration of Tinuvin® 5866 depends on dry-film thickness and desired degree of protection.

In recommended applications, the concentration levels typically range from 0.25 – 2.0% by weight on binder solids depending on substrate and processing conditions.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet Tinuvin® 5866.

Storage

Properly stored at temperatures of 5 - 35°C (41 - 95°F) and protected, an unopened original container of Tinuvin® 5866 should have a shelf life of at least 36 months from the date of manufacture.

Important

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