

Tinuvin® 5866

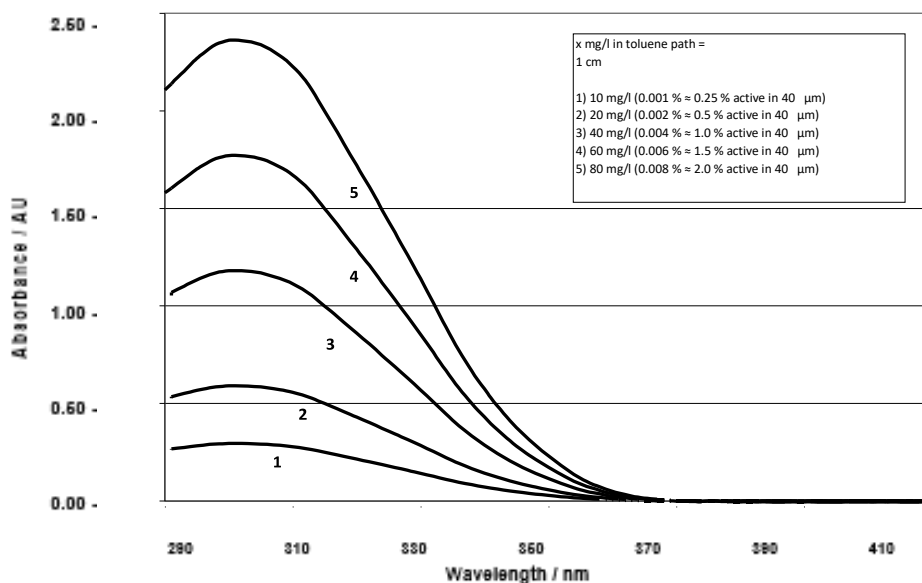
Product Description	<i>Tinuvin 5866 is a solid light stabilizer blend containing UV absorber and HALS components for adhesives and sealants applications. It was designed to meet high performance and durability requirements.</i>
Key Features & Benefits	<ul style="list-style-type: none">- Excellent initial color- Medium to long-term performance and thermal stability- Synergistic combination imparts protection against gloss reduction, cracking, blistering, delamination or color change, providing full substrate protection
Chemical Composition	Proprietary

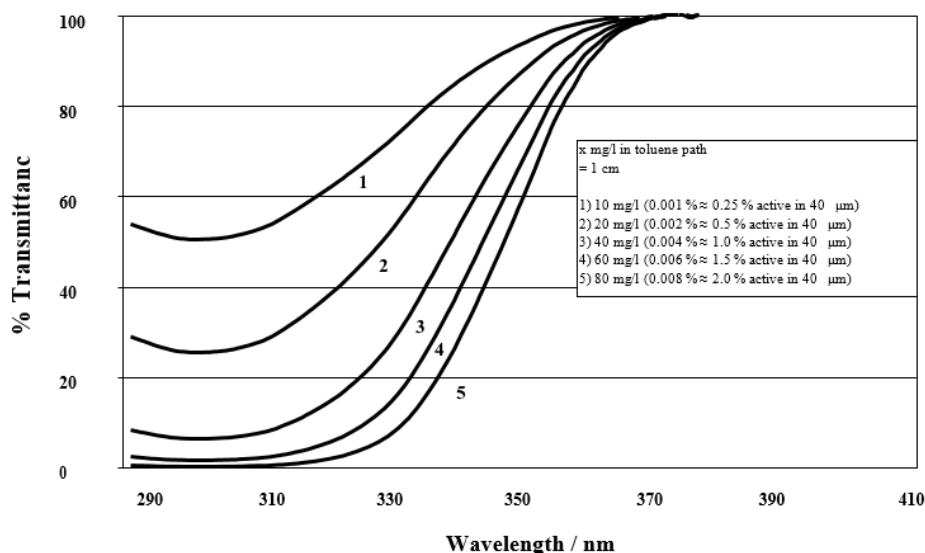
Properties

Typical Properties	Appearance		white to slightly yellow free-flowing powder
	Flash point	°C	232 – 236
	Melting point	°C	115 – 119
Solubility	at 25°C (g/100g solution)		
	Methanol		< 0.01

These typical values should not be interpreted as specifications.

Spectral Properties





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)

The theoretical concentration 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. Spectra were recorded in toluene, light path length = 1 cm.

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 measure 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 for Tinuvin 5866.

Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

Important

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