

Tinuvin® 622 SF

Product description

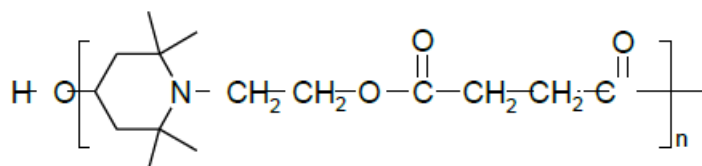
Hindered amine light stabilizer (HALS)

Tinuvin® 622 SF is a solid oligomeric low-basic HALS developed for coatings, adhesives and sealants. It is designed to meet high performance and durability requirements of all powder coatings as well as adhesives and sealants applications. It protects coatings from surface defects such as gloss reduction, cracking and chalking and ensures the retention of mechanical properties. Furthermore it shows thermally stabilizing and antioxidant properties.

Key benefits

- Oligomeric low-basic HALS
- Superior thermal stability and good long-term performance
- Non-migrating
- Antioxidant properties

Chemical nature



Oligomeric tetramethyl piperidine derivative

CAS number

65447-77-0

Molecular weight

3,100 – 4,000 g/mol

Properties

Physical form White coarsely ground powder

Technical data (not supply specification)	Glass transition temperature	92/69 EEC A. 1 DSC	57 – 61 °C
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Solubility	Solvesso®1 100	20 g / 100 g solution
	Butyl acetate	10 g / 100 g solution

Application

Fields of application Tinuvin® 622 SF is recommended for long-term stabilization, where non-migrating and thermally stabilizing properties are required:

- Powder coatings
- Hot-melt adhesives
- Solvent-based adhesives

For outdoor applications, Tinuvin® 622 SF needs to be combined with UV absorbers such as Tinuvin® 405 (for powder coatings) or Tinuvin® 326, Tinuvin® 328 or Tinuvin® 900 (for adhesives and sealants). For specific UV absorber recommendations refer to the individual data sheets.

- Binder systems**
- Polyester, polyurethane and acrylic powder coatings
 - Thermoplastic (acrylic, vinylic, ...)
 - Thermosetting (PES/melamine, ...)
 - Hotmelt (PUR, PA, SIS, SBS, EVA)
 - Solvent-based adhesives (acrylic and PUR)
 - Polyester, polyurethane and acrylic powder coatings

Recommended concentrations

The concentration of Tinuvin® 622 SF depends on the pigmentation of the coating. The amount required for optimum performance should be determined in trials covering a concentration range.

Coating type	By weight of total formulation
Clear coats	0.5 – 1.0 %
Semi-transparent	0.5 – 1.5 %
Opaque/solid-shade	1.0 – 2.0 %

In adhesives and sealants applications the concentration levels typically range from 0.5 – 2.0% by weight of total formulation depending on substrate and processing conditions.

Storage

When kept in original unopened containers and at temperatures of 5 – 35 °C, Tinuvin® 622 SF can be stored for up to 3 years from the date of manufacture.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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