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Tinuvin® 622 SF

Product Description

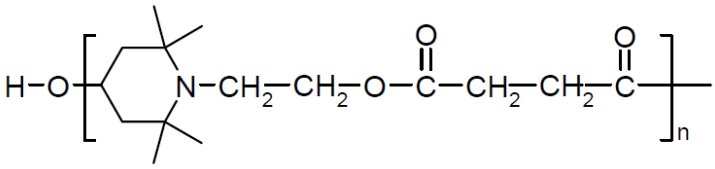
Tinuvin 622 SF is a solid oligomeric low basic hindered amine light stabilizer (HALS) developed for coating, adhesive and sealant applications.

Key Features & Benefits

- Superior thermal stability and good long-term performance
- Non migrating
- Antioxidant properties

Chemical Structure

oligomeric tetramethyl piperidine derivative



Properties

Typical Properties

Appearance		white, coarsely ground powder
CAS No:		65447– 77 – 0
Molecular weight	g/mol	3,100 – 4,000
Tg	°C (°F)	57 – 61 (135 – 142)

Solubility at 20°C (g/100 g solution):

Solvesso[1] 100	20
Butyl acetate	10

[1]*Trademark of Exxon Mobile Corporation.*
These typical values should not be interpreted as specifications.

Applications

Tinuvin 622 SF is designed to meet high performance and durability requirements of all powder coatings as well as adhesive and sealant applications. It protects coatings from surface defects such as gloss reduction, cracking and chalking and ensures the retention of mechanical properties. In addition, it shows thermally stabilizing and antioxidant properties.

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

Processing

For outdoor applications, Tinuvin 622 SF needs to be combined with UV absorbers such as Tinuvin 405 (for powder coatings) or Tinuvin 928 or Tinuvin 900 (for adhesives and sealants). For specific UV absorber recommendations, refer to individual technical data sheets.

Binder Systems

- Polyester, polyurethane and acrylic powder coatings
- Thermoplastic (acrylic, vinylic, etc.)
- Thermosetting (PES/melamine, etc.)
- Hot melt (PUR, PA, SIS, SBS, EVA)
- Solvent-based adhesives (acrylic and PUR)

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

Recommend Concentrations

Application	Weight % of Tinuvin 622 SF of total formulation
Clear coats	1.0 – 2.0%%
Semi-transparent coatings	0.5 – 1.5%
Opaque/solid-shade coatings	1.0 – 2.0%
Adhesives and sealants	0.5 – 2.0%, 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 622 SF.

Storage

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

Important

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