Tinuvin® 770 DF

Hindered amine light stabilizer (HALS)

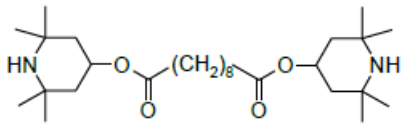
Product description

Tinuvin® 770 DF is a solid basic HALS with food-contact approval developed for coatings, adhesives and sealants. It is designed to meet durability requirements of all exterior solvent-based industrial coatings. It protects coatings against surface defects such as gloss reduction, cracking and chalking and it ensures the retention of mechanical properties.

Key benefits

- Basic HALS
- Good long-term performance
- Good thermal stability
- Food-contact approval

Chemical nature



Tetramethyl piperidine derivative

CAS number 52829-07-9

Molecular weight 480.7 g/mol

Properties

Physical form White to off – white granules

Technical data
(not supply specification)

Melting point	92/69 EEC A. 1 DSC	81 – 85 °C

Solubility Up to 20 g/100 g solution in Solvesso®[1] 100 or butyl acetate (20 °C)

1 registered trademark of Exxon Mobil Corporation

Application

Fields of application

Tinuvin® 770 DF is broadly compatible and can be easily incorporated to achieve long-term light-stabilizing.

- Industrial coatings
- Adhesives and sealants

For exterior applications, Tinuvin® 770 DF needs to be combined with UV absorbers such as Tinuvin® 400, Tinuvin® 99-2 (for industrial coatings) or Tinuvin® 326, Tinuvin® 328 or Tinuvin® 900 (for adhesives and sealants. For specific UV absorber recommendations please refer to the individual data sheets.

Binder systems

- Hotmelt (PUR, PA, SIS, SBS, EVA)
- Solvent-based adhesives (acrylic and PUR)
- Sealants (MS polymer)

Recommended concentrations

The concentration of Tinuvin® 770 DF 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 binder solids
Clear coats	0.5 – 1.0 %
Semi-transparent	0.5 – 1.5 %
Opaque/solid-shade	1.0 – 2.0 %
Adhesives and sealants	0.5 – 2.0%, depending on substrate and processing conditions

Storage

When kept in original unopened containers and at temperatures of 5 – 35 °C.

Tinuvin® 770 DF 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.

BASF SE
Resins & Additives (Europe)
67056 Ludwigshafen, Germany
www.basf.com/resins

30050510