

Tinuvin® 152

Product description

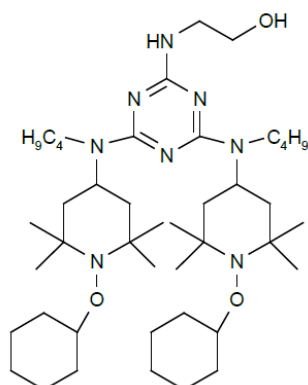
Hindered amine light stabilizer (HALS)

Tinuvin® 152 is a solid non-basic non-migrating HALS for coatings, adhesives and sealants. It is designed to meet high performance and durability requirements of all exterior solvent-based automotive and industrial coating applications where basic HALS fail or where compatibility or migration are an issue. It protects coatings from surface defects such as gloss reduction, cracking and chalking and also improves the retention of mechanical properties.

Key benefits

- Non-basic N-OR HALS
- Non-migrating, reactable via OH function into NCO- and melamine-crosslinked systems
- Good long-term performance
- High thermal stability

Chemical nature



Aminoether-substituted tetramethyl piperidine derivative

CAS number

191743-75-6

Molecular weight

756.6 g/mol

Properties

Physical form off-white powder

Technical data Glass transition temperature 92/69 EEC A. 1 DSC 72 – 76 °C
(not supply specification)

Solubility Up to 35 % in Solvesso®¹ 100 or butyl acetate (CAS No. 123-86-4)

Application

Fields of application Due to its non-migrating and non-basic properties Tinuvin® 152 is especially suitable for coatings over plastics or any other substrates where migration of additives needs to be prevented:

- Plastic coatings (PC, PMMA, PET, sheets, films, packaging, ...)
- Automotive and industrial coatings
- Powder coatings
- Coil coatings
- Adhesives and sealants

For clear-coat applications, Tinuvin® 152 needs to be combined with a UV absorber (UVA) such as Tinuvin® 400 (for automotive OEM finishes) or Tinuvin® 405 (for powder coatings).

- Binder systems**
- 1K and 2K PUR (acrylic/NCO, PES/NCO, ...)
 - Acid-catalyzed thermosetting (acrylic, PES/melamine, ...)
 - Vinylic (PVC plastisols, PVC copolymers, chlorinated resins)
 - Glycidyl-methylacrylate (GMA) powder coatings

Recommended concentrations

The concentration of Tinuvin® 152 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 %
Semi-transparent	0.5 – 1.0 %
Opaque/solid-shade	1.0 – 2.0 %

Storage

When kept in original unopened containers and at temperatures of 5 –35 °C, Tinuvin® 152 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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