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Tinuvin® 791

Synergistic mixture of oligomeric hindered amine stabilizers

Characterization

Tinuvin 791 is a synergistic mixture of Chimassorb® 944 and Tinuvin 770. It is an excellent light stabilizer especially for PP thick sections, which offers excellent surface protection. It also shows high stabilization efficiency in PP tapes.

Chemical name

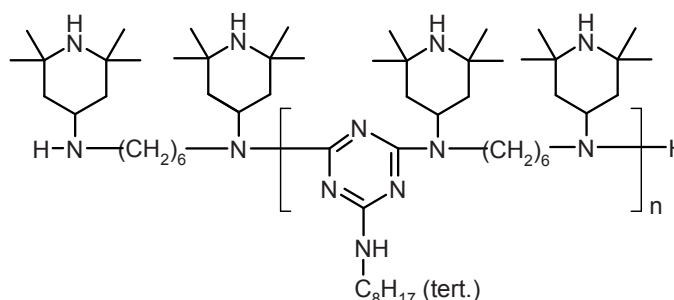
Chimassorb 944: Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diy]][(2,2,6,6-tetramethyl-4-piperidyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidyl)imino]]

CAS number

Preparation

Structure

Chimassorb 944



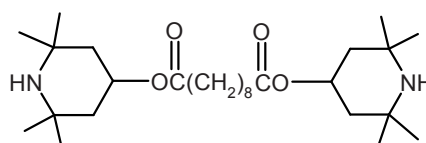
Molecular weight

M_n = 2000–3100 g/mol

Structure

Tinuvin 770

and



Molecular weight

481 g/mol

Applications

Tinuvin 791 areas of application are PP, blends of polypropylene with elastomers and PA: It can also be used in styrenic polymers, e.g. ABS, impact polystyrene, etc.

Features/benefits

Tinuvin 791 is an excellent UV stabilizer for thick sections, e. g. automotive bumpers, fascia, garden furniture etc.

The synergism between the high and low molecular weight HALS components of Tinuvin 791 guarantees maximum protection for the polymer against degradation from UV radiation and long-term heat exposure.

Product forms

Code: Tinuvin 791 FB
Appearance: white to slightly yellow granules, odorless

Guidelines for use

Thick sections*: UV stabilization of PP 0.1–0.8 %
Tapes: UV stabilization of PP 0.1–0.8 %

** The presence of a UV absorber (e. g. Tinuvin 326/328 or Chimassorb 81) is recommended in unpigmented or slightly pigmented articles or to improve the light fastness of certain organic pigments.*

Physical properties

Melting range: approx. 55 °C start
Specific gravity (20 °C): 1.0–1.2 g/cm³
Flashpoint: > 150 °C
Vapor pressure (20 °C): < 0.01 Pa

Handling & Safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Avoid contact with eyes. Prevent contamination of the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

Note

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