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Tinuvin® XT 850

High performance light stabilizer system

Characterization

Tinuvin XT 850 is a high performance light stabilizer system, which imparts outstanding weatherability to polyolefins. The main advantage of Tinuvin XT 850 over other stabilization systems is that it is not interacting with acid-cured 1-component automotive coatings and other acidic components. Tinuvin XT 850 also contributes significantly to the long-term thermal stability of polyolefins.

Chemical name

Hindered amine derivative

CAS number

Preparation

Applications

Tinuvin XT 850 is a highly effective light stabilizer for polyolefins and other plastics. Its use is especially recommended for the stabilization of blends of polypropylene with elastomers (TPO) for paintable automotive applications. Other applications include molded-in-color TPO, TPE, TPV, and polypropylene, polyethylene, polyvinylchloride, thermoplastic polyester elastomers, and polyurethanes.

Use of Tinuvin XT system in combination with flame retardants constitutes infringement of Dutch Patent No. 1014414 and of any patent on equivalent patent applications.

Features/benefits

Tinuvin XT 850 features powerful light and long-term thermal stabilization performance in polyolefin substrates. It is non-interacting with acid-cured 1-component automotive coatings and acidic formulation components. Its excellent compatibility with polyolefins provides additional benefits such as good resistance to fogging for automotive interior applications and reduced mold deposit formation. It protects polymers from UV radiation, helping to preserve the original appearance and physical integrity during weathering.

Product forms

Code: Tinuvin XT 850 FF
Appearance: white to off-white granules

Guidelines for use

The use levels of Tinuvin XT 850 range between 0.05 and 0.5 %, depending on the substrate and the performance requirements of the final application. The product can be used alone or in combination with other additives such as Tinuvin ultraviolet absorbers, Irganox® antioxidants, Irgafos® and Irgastab® FS process stabilizers, and other functional stabilizers and additives.

Physical properties

Melting range 63–120 °C
Bulk density 475 g/l

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 dust formation and ignition sources.

Note

For more detailed information please refer to the material safety data sheet. The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contractual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication may change without prior information. The descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.

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